Data Report: Organic Water Chemistry for 2005 Storm Events in Support of the Storm Water Studies in Sinclair and Dyes Inlet, Washington

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December 2005

Prepared for the
Puget Sound Naval Shipyard and
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Project ENVVEST
Bremerton, Washington
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Pacific Northwest National Laboratory Richland, Washington

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Pacific Northwest National Laboratory Richland, Washington 99352

ABSTRACT

Sinclair Inlet and Dyes Inlet were listed on the State of Washington's 1998 Section 303(d) list of impaired waters because of fecal coliform contamination in marine waters and tributary streams, heavy metals and toxic organics in the bottom sediments, and polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCBs), aldrin, dieldrin, mercury (Hg), and arsenic (As) in the tissues of marine organisms. A cooperative watershed agreement for the inlets was established among the Puget Sound Naval Shipyard (PSNS) and Intermediate Maintenance Facility (IMF); the Environmental Protection Agency (EPA); the Washington State Department of Ecology (Ecology); and other technical stakeholders. The ENVironmental inVESTment group (ENVVEST) was formed to assist regulatory agencies in developing total maximum daily loads (TMDL) and to assess ecological risk within the watershed. ENVVEST identified contaminant loading during storm events as a data gap for the inlets. The 2005 storm water sampling program collected flow and water quality data from selected marine locations, representative streams, storm water outfalls, storm water drainages, and waste water treatment outfalls discharging in the Sinclair and Dyes Inlet watershed during seven winter/spring storm events. Storm event mean samples were analyzed for conventional water quality parameters, metals, and organic contaminants. The 2005 storm water data were reported in a series of three reports: conventional parameters, metals chemistry, and organic contaminants. This report summarizes the 2005 organic contaminants data and quality control sample information.

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OVERVIEW

The Sinclair/Dyes Inlets watershed is located within Kitsap County, Washington. The boundaries of the watershed include the receiving waters of Sinclair and Dyes Inlets, which are connected to the main basin of Puget Sound through two passages. Sinclair Inlet and Dyes Inlets were listed on the State of Washington's 1998 Section 303(d) list of impaired waters because of fecal coliform contamination in marine waters and tributary streams, heavy metals and toxic organics in the bottom sediments, and polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCBs), aldrin, dieldrin, mercury (Hg), and arsenic (As) in the tissues of marine organisms (Ecology 1998). A cooperative watershed agreement for the inlets was established among the Puget Sound Naval Shipyard (PSNS) and Intermediate Maintenance Facility (IMF); the Environmental Protection Agency (EPA); the Washington State Department of Ecology (Ecology); and other technical stakeholders. These cooperative agreements led to the development of an environmental investment project known as Project ENVVEST. The focus of Project ENVVEST is to assist regulatory agencies in developing total maximum daily loads (TMDL) and assessing ecological risk within the watershed. Project ENVVEST will provide regulatory agencies with data that will help them understand and address sources of pollution coming into the inlets.

One task within the ENVVEST program was the 2005 Storm Event Sampling in the Sinclair and Dyes Inlet Watershed. The objectives of this project were to obtain data to support total loading and modeling analysis of contaminants discharged into Sinclair and Dyes Inlets, to develop preliminary data on contaminant levels in nonpoint source runoff in Gorst to evaluate the potential for developing restoration alternatives, and to assess the impact of storm event runoff on the water quality of the inlets. The data obtained from these sampling efforts will be used to elucidate the interconnection of water quality and watershed hydrology, land use, and land cover. The project focused on collecting flow and water quality data from representative streams, storm water outfalls, storm water drainages, and waste water treatment outfalls discharging in the Sinclair and Dyes Inlet watershed during storm events in winter/spring 2005. Storm water was collected from three regions within the watershed: 1) Gorst (head of Sinclair Inlet), 2) Sinclair Inlet, and

3) Dyes Inlet. In addition to storm water, ambient marine samples were collected following each storm event to assess the impact of storm event runoff on ambient water quality in the inlets.

Storm event sampling was conducted by The Environmental Company (TEC) and PSNS. Samples were collected from qualifying storm events, which were defined as storms resulting in more than 0.25 inches of rain within a 24-hour period, following a discernable period of no rainfall. Storm water samples were collected throughout the storm event using either a portable Isco autosampler (ISCO) programmed to create 3-4-hour composites or discrete grab samples collected at the beginning, middle, and end of each storm. Immediately following the storm event, data from each of the flow monitors were downloaded and processed to produce the storm hydrograph for selected stations. The storm hydrographs along with physical data (temperature, salinity, turbidity and pH) were used to develop a *post-hoc* compositing scheme to best represent storm water flow and to eliminate periods of tidal intrusion and low-to-no flow for each event-mean composite sample. Samples and data were collected for the following regions and storm events:

- 1. Gorst: 17-18 January 2005
- 2. Gorst: 22 January 2005
- 3. Sinclair: 28 February to 1 March 2005
- 4. Sinclair: 19-20 March 2005
- 5. Dyes: 26 March, 2005
- 6. Dyes: 31 March to 1 April 2005
- 7. Bainbridge Island: 10-11 April 2005.

Samples were composited at Battelle Marine Sciences Laboratory and analyzed for conventional water chemistry parameters, nutrients, metals, and toxic organics to obtain storm event mean concentrations of contaminants. This report summarizes the conventional water chemistry and nutrient data for the 2005 storm water samples. The list of possible water chemistry parameters includes: alkalinity, hardness, total solids (TS), total suspended solids (TSS), total organic carbon (TOC), dissolved organic carbon (DOC), ammonia as nitrogen, nitrate plus nitrite, total nitrogen, and total phosphorus.

For additional project information see the following documents:

- Storm Event Sampling in the Sinclair and Dyes Inlet Watershed: FY2005 Quality
 Assurance Project Plan PSNS Project ENVVEST Study Area (TEC 2004a).
- Sampling and Analysis Plan for In-Stream and Storm Water Chemical and Flow Characteristics – PSNS Project ENVVEST Study Area (TEC 2004b).
- Health and Safety Plan for Sampling and Analysis of In-Stream and Storm Water Chemical and Flow Characteristics – PSNS Project ENVVEST Study Area (TEC 2004c).
- Gorst Storm Event 1: Field Sampling Report for the storm on 17-18 January 2005 (TEC 2005a).
- Gorst Storm Event 2: Field Sampling Report for the storm on 22 January 2005 (TEC 2005b).
- Sinclair Storm Event 1: Field Sampling Report for the storm on 28 February 1
 March 2005 (TEC 2005c).
- Sinclair Storm Event 2: Field Sampling Report for the storm on 19-20 March 2005 (TEC 2005d).
- Dyes Storm Event 1: Field Sampling Report for the storm on 26 March 2005 (TEC 2005e).
- Dyes Storm Event 2: Field Sampling Report for the storm on 31 March- 1 April 2005 (TEC 2005f).
- Springbrook Creek Sampling Event: Field Sampling Report for the storm on 10-11 April 2005 (TEC 2005g).

Equipment Blank Results: 2005 Storm Water Organic Contaminants

- PAHs
- PCBs
- QA Narrative

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SINCLAIR AND DYES INLET 2005 STORMWATER

2005 Stormwater Equipment Blank

PAH/Phthalate Results for Water Samples Reported in ng/L

PAH Results

						naphthalene	2 methyl naphthalene	acenaphthalene	acenaphthene	fluorine	phenanthrene
MSL Sample ID	Client ID	Site Description	Collection Date	Extraction Date	Surrogate: Analysis Date	d8 naphthalene	d8 naphthalene	d10 acenaphthene	d10 acenaphthene	d10 acenaphthene	d10 phenanthrene
2318-1	BST12-RB	Equipment Blk	12/3/2004	12/7/2004	1/3/2005	64.3	17.1 J	10.1 U	9.50 U	8.38 U	12.9 U
Blanks Method Blank (1) Blank Spike Resu				12/7/2004	1/3/2005	8.35 U	10.0 U	12.8 U	12.1 U	10.6 U	16.4 U
Blank Blank Spike A Blank Spike B	23181 Blank 23181 Blank Spike A 23181 Blank Spike B	 	 	12/7/2004 12/7/2004 12/7/2004	1/3/2005 1/3/2005 1/3/2005	8.35 U 570 532	10.0 U 570 532	12.8 U 602 542	12.1 U 626 571	10.6 U 647 571	16.4 U 710 * 627
	Spike Concentration Percent Recovery A Percent Recovery B	L				625 91% 85%	625 91% 85%	625 96% 87%	625 100% 91%	625 103% 91%	625 114% 100%
LABORATORY	REPORTING LIMIT ((RL)				20	20	20	20	20	20

SINCLAIR AND DYES INLET 2005 STORMWATER 2005 Stormwater Equipment Blank

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PAH/Phthalate Results for Water Samples Reported in ng/L

				anthracene	fluoranthene	pyrene	benz[a]anthracene	chrysene	benzo[b]fluoranthene
MSL Sample ID	Client ID	Site Description	Collection Date	d10 phenanthrene	d12 chrysene	d12 chrysene	d12 chrysene	d12 chrysene	d12 perylene
2318-1	BST12-RB	Equipment Blk	12/3/2004	9.10 U	14.1 U	14.7 U	12.6 U	13.9 U	12.0 U
Blanks Method Blank (1)	23181 Blank			11.6 U	17.9 U	18.7 U	16.0 U	17.6 U	15.3 U,*
Blank Spike Resu Blank Blank Spike A Blank Spike B	alts 23181 Blank 23181 Blank Spike A 23181 Blank Spike B	 	 	11.6 U 690 * 589	17.9 U 722 * 606	18.7 U 721 * 597	16.0 U 683 * 494	17.6 U 663 * 476	15.3 U 617 375
	Spike Concentration Percent Recovery A Percent Recovery I	A		625 110% 94%	625 116% 97%	625 115% 95%	625 109% 79%	625 106% 76%	625 99% 60%
LABORATORY	REPORTING LIMIT	(RL)		20	20	20	20	20	20

SINCLAIR AND DYES INLET 2005 STORMWATER

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PAH/Phthalate Results for Water Samples
Reported in ng/L

				benzo[k]fluoranthene	benzo[a]pyrene	indeno[1,2,3-c,d]pyrene	dibenz[a,h]anthracene	benzo[g,h,i]perylene
MSL Sample ID	Client ID	Site Description	Collection Date	d12 perylene	d12 perylene	d12 perylene	d12 perylene	d12 perylene
2318-1	BST12-RB	Equipment Blk	12/3/2004	11.4 U	13.6 U	11.2 U	10.6 U	11.3 U
Blanks Method Blank (1)	23181 Blank			14.5 U,*	17.2 U,*	14.3 U,*	13.4 U,*	14.4 U,*
Blank Spike Resu Blank Blank Spike A Blank Spike B	23181 Blank 23181 Blank Spike A 23181 Blank Spike B	 	 	14.5 U 649 370	17.2 U 561 351	14.3 U 351 176	13.4 U 390 187	14.4 U 360 196
	Spike Concentration Percent Recovery A Percent Recovery E	L		625 104% 59%	625 90% 56%	625 56% 28% &	625 62% 30% &	625 58% 31% &
LABORATORY	REPORTING LIMIT	(RL)		20	20	20	20	20

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SINCLAIR AND DYES INLET 2005 STORMWATER

2005 Stormwater Equipment Blank

PAH/Phthalate Results for Water Samples

Phthalate Results Surrogate Recoveries bis(2di-N-butyl butylbenzyl ethylhexyl) d10 d10 d12 d12 phthalate phthalate phthalate d8 naphthalene acenaphthene phenanthrene chrysene perylene (%) (%) (%) (%) (%) Site Collection d10d12MSL Sample ID Client ID Description Date phenanthrene d12 chrysene perylene 2318-1 BST12-RB Equipment Blk 12/3/2004 439 EB 96.4 EB 424 EB 78% 82% 92% 67% 56% **Blanks** Method Blank (1) 23181 Blank 873 E 191 E 660 E* 88% 96% 95% 60% 39% # **Blank Spike Results 873** E Blank 23181 Blank 191 E 660 E* 88% 96% 95% 60% 39% # 302 EB* Blank Spike A 23181 Blank Spike A 145 EB* **377** EB 90% 101% 123% # 122% # 108% Blank Spike B 23181 Blank Spike B 310 EB 190 EB 355 EB 78% 86% 99% 76% 60% Spike Concentration 1250 1250 1250 Percent Recovery A NC NC NC Percent Recovery B NC NC NC LABORATORY REPORTING LIMIT (RL) 40 40 40

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SINCLAIR AND DYES INLET 2005 STORMWATER 2005 Stormwater Equipment Blank

PCB/Aroclor 1268 Results for Water Samples

						Aroclor 1268	PCB008	PCB018	PCB028	PCB052	PCB044	PCB066	PCB101
MSL Sample ID	Client ID	Site Description	Collection Date	Extraction Date	Analysis Date	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)
2318-1	BST12-RB	Equipment Blk	12/3/2004	12/7/2004	12/22/2004	25.7 U	1.15 U	0.75 U	0.32 U	1.32 U	0.55 U	0.42 U	0.19 U
<u>Blanks</u> Method Blank ((1)23181 Blank			12/7/2004	12/22/2004	32.6 U	1.15 U	0.75 U	0.32 U	1.32 U	0.55 U	0.42 U	0.19 U
Blank Spike R	esults												
Blank	23181 Blank			12/7/2004	12/22/2004	32.6 U	1.15 U	0.75 U	0.32 U	1.32 U	0.55 U	0.42 U	0.19 U
Blank Spike A	23181 Blank Spike A			12/7/2004	12/22/2004	32.6 U	26.0	27.5	24.8	24.6	24.4	35.7	34.7
Blank Spike B	23181 Blank Spike B			12/7/2004	12/22/2004	32.6 U	23.8	25.6	23.3	21.6	21.7	29.6	31.1
	Spike Concentration Percent Recovery A Percent Recovery E	L				NS NA NA	25.0 104% 95%	25.0 110% 102%	25.0 99% 93%	25.0 98% 86%	25.0 98% 87%	25.0 143% & 118%	25.0 139% & 124% &
LABORATOR	RY REPORTING LIMI	T (RL)				40	2	2	2	2	2	2	2

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SINCLAIR AND DYES INLET 2005 STORMWATER 2005 Stormwater Equipment Blank

PCB/Aroclor 1268 Results for Water Samples

				PCB077	PCB118	PCB153	PCB105	PCB138	PCB126	PCB187	PCB128	PCB200	PCB180
MSL Sample ID	Client ID	Site Description	Collection Date	(ng/L)									
2318-1	BST12-RB	Equipment Blk	12/3/2004	1.52 J	0.23 U	0.17 U	0.17 U	0.18 U	0.37 U	0.36 U	0.29 U	0.40 U	0.32 U
	(1)23181 Blank			0.22 U	0.23 U	0.17 U	0.17 U	0.18 U	0.37 U	0.36 U	0.29 U	0.40 U	0.32 U
Blank Spike R													
Blank	23181 Blank			0.22 U	0.23 U	0.17 U	0.17 U	0.18 U	0.37 U	0.36 U	0.29 U	0.40 U	0.32 U
Blank Spike A	23181 Blank Spike A			34.6	35.1	36.6	35.4	34.3	39.2	37.1	36.3	36.1	27.7
Blank Spike B	23181 Blank Spike B			28.3	20.9	33.4	29.5	28.9	31.3	31.5	27.7	28.2	18.4
	Spike Concentration	ı		25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
	Percent Recovery A	1		138% &	140% &	146% &	142% &	137% &	157% &	148% &	145% &	144% &	111%
	Percent Recovery I	3		113%	84%	134% &	118%	116%	125% &	126% &	111%	113%	74%
LABORATOR	RY REPORTING LIMI	T (RL)		2	2	2	2	2	2	2	2	2	2

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SINCLAIR AND DYES INLET 2005 STORMWATER 2005 Stormwater Equipment Blank

PCB/Aroclor 1268 Results for Water Samples

Surrogate Recoveries

				Buildgate Recoveries				
				PCB170	PCB195	PCB103	PCB198	
MSL Sample ID	Client ID	Site Description	Collection Date	(ng/L)	(ng/L)	% Recovery	% Recovery	
2318-1	BST12-RB	Equipment Blk	12/3/2004	0.35 U	1.12 U	60%	87%	
Blanks Method Blank (1]23181 Blank			0.35 U	1.12 U	70%	120%	
Blank Spike Re	<u>esults</u>							
Blank	23181 Blank			0.35 U	1.12 U	70%	120%	
Blank Spike A	23181 Blank Spike A			32.2	34.6	93%	150% #	
Blank Spike B	23181 Blank Spike B			28.5	28.2	76%	115%	
	Spike Concentration	1		25.0	25.0			
	Percent Recovery A			129% &	138% &			
	Percent Recovery B	3		114%	113%			
LABORATOR	Y REPORTING LIMI	T (RL)		2	2			

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ORGANIC CHEMISTRY DATA QUALIFIERS SINCLAIR AND DYES INLET 2005 STORMWATER

- U Not detected at or above DL shown
- J Concentration less than RL but greater than MDL
- **B** Sample concentration is <10x blank
- **E** Estimate; see narrative
- **NA** Not available/applicable
- **NC** Not calculated; see narrative
- **NS** Sample not spike for this analyte
- & Outside Project DQOs for Spike recovery (40-120%) or Replicate Analysis (<30%)
- # Outside Project DQOs for Surrogate recovery (40-120%)
- * Associated Surrogate exceeded Project DQO guidelines

QA/QC NARRATIVE

PROJECT: Sinclair and Dyes Inlet Storm Water Study – 2005 Storm Water Study Equipment Blank

PARAMETER: Organics – PAH, Phthalates and PCBs

LABORATORY: Battelle Marine Sciences Laboratory, Sequim, Washington

MATRIX: Equipment Blank Water from the ISCO Sampler

SAMPLE CUSTODY AND PROCESSING:

Battelle received equipment blank water collected using the ISCO sampler during a mock deployment at station B-ST12. The sampler collected deionized water over a 17-hour period from 12/02/04 1247 to 12/03/04 0632. All samples were received in good condition. The samples were composited at MSL using equal proportions of each discrete sample. The composite sample was analyzed for organics (PAHs, Phthalates, and PCBs).

Samples were assigned a Battelle Central File (CF) identification number (2318) and were entered into Battelle's sample tracking system.

The following lists information on sample receipt and processing activities:

EVENT	Composite Collection Date	Laboratory Arrival Date	Extraction Date	PAH/ Phthalate Analysis Date	PCB Analysis Date
FY05 Equipment Blank Test	12/02/04 to 12/03/04	12/3/04	12/7/04	1/3/05	12/22/04

QA/QC PROJECT DATA QUALITY OBJECTIVES:

	Analytical	Reporting	MS Range of	Laboratory Control Sample	Surrogate Spike
Analyte	Method	Limits (ng/L)	Recovery	_	Recovery
PAH	GC-MS	20	40-120%	40-120%	40-120%
Phthalates	GC-MS	40	40-120%	40-120%	40-120%
PCB Congeners	GC-ECD	2	40-120%	40-120%	40-120%
Aroclor 1268	GC-ECD	40	40-120%	40-120%	40-120%

METHODS:

All samples were extracted and analyzed in accordance with the following Battelle methods:

- <u>MSL-O-010</u> Extraction and Cleanup of Water for Semivolatile Organics Following the Surrogate Internal Standard Method.
- <u>MSL-O-008</u> Operation and Maintenance of Gas Chromatographs (GC) and Gas Chromatograph/Mass Spectrometer (GC/MS) Systems.
- MSL-O-015 Identification and Quantification of Polynuclear Aromatic Hydrocarbons by Gas Chromatography/Mass Spectrometry Following EPA Method 8270B Quality Control Criteria.
- MSL-O-016 Analysis of PCBs and Chlorinated Pesticides by Gas
 Chromatography with Electron Capture Detection Following EPA METHOD 8080A Quality Control Criteria.

Results are reported as not blank corrected in units of ng/L for each sample.

HOLDING TIMES: Established holding times of 7 days from collection for the extraction procedure and 40

days from extraction for the analyses were achieved for all samples.

DETECTION LIMITS: Detection limits were determined on a per sample basis and data are flagged (U) using

sample specific MDLs. Reporting limits (RL) were established based on a low standard concentration and data are flagged (J) to identify concentrations less than the RL but

greater than the MDL.

QA/QC NARRATIVE

DATA QUALIFIERS:

- U Not detected at or above MDL, sample specific MDL reported
- J Concentration less than RL but greater than MDL
- E Estimate
- & Spiked sample outside control limits of 40-120% recovery; precision <30%
- B Sample concentration is <10x blank
- * Associated Surrogate recovery exceeds control limit (flag applied to samples)
- # Surrogate recovery outside control limits (40-120% flag applied to surrogate)

METHOD BLANK:

PAHs and Phthalates:

One method blank was analyzed by extracting one liter of reagent water. Analytes were not detected in the PAH method blank above the MDL. The three phthalate compounds were detected in the blank. The phthalate data are flagged as estimates and data usage should be limited to research evaluation.

PCBs:

One method blank was analyzed by extracting one liter of reagent water. Analytes were not detected in the blank above the RL.

LABORATORY CONTROL SAMPLE/BLANK SPIKE RECOVERY:

PAHs and Phthalates:

One set of blank spike/blank spike duplicates was analyzed with the samples. Blank spike samples were within the QC criterion of 40-120% for all PAH compounds with the following exceptions for the blank spike duplicate: indeno[1,2,3-c,d]pyrene (28%), dibenz[a,h]anthracene (30%), and benzo[g,h,i]perylene (31%).

One set of blank spike/blank spike duplicates was prepared and analyzed for bis (2-ethylhexyl) phthalate, di-n-butyl phthalate, and butyl benzyl phthalate. However, due to the detected blanks, recoveries were not calculated. The data are flagged as estimates and data usage should be limited to research evaluation.

PCBs:

One set of blank spike/blank spike duplicates was analyzed with the samples. Due to a high surrogate recovery for blank spike A, several congeners were outside the project QC criterion of 40-120% recovery. Acceptable blank spike recoveries are reported for blank spike B with the exception of PCB101, PCB153, PCB126, and PCB187. The impact to the data is negligible as the recoveries were high and the sample concentrations for these congeners were all less than the MDL.

LABORATORY PRECISION: SURROGATE RECOVERIES:

There was insufficient sample available for a MS/MSD pair or a laboratory duplicate.

Surrogates compounds were used to evaluate the recovery of the extraction and clean-up process for the PAHs, phthalates, and PCB congeners.

PAHs and Phthalates:

The percent recovery for the surrogate d12 perylene (39%) was outside the project QC criterion of 40-120% recovery for the method blank. The surrogate was flagged and the associated sample concentrations were flagged. Although the surrogate recovery was low, the data are not impacted as the surrogates for the EB water are within the QC criterion and contained no detectable PAH compounds associated to this surrogate. The percent recoveries for PAH surrogates d10 phenanthrene (123%) and d12 chrysene (122%) were outside the project QC criterion of 40-120%, but meet the SOP QC criterion of 50-150%. The surrogate recovery is flagged (#) and the PCB congeners associated to this surrogate are flagged (*).

PCBs:

The PCB198 surrogate for blank spike A was outside the project QC criterion of 40-120%, but meets the SOP criterion of 50-150% recovery. The data are flagged.

Field Data Summary: 2005 Storm Water Organic Contaminants -PAHs

- Gorst
- Sinclair Inlet
- Dyes Inlet, Wet Season Baseflow

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SINCLAIR AND DYES INLET 2005 STORMWATER

Gorst Stormwater

PAH/Phthalate Results for Water Samples Reported in ng/L

PAH Results

							141.1	2 methyl	10.1	1.0	gi.	
-							naphthalene	naphthalene	acenaphthalene	acenaphthene	fluorine	phenanthrene
MSL Sample ID	Client ID	Site Description	Event	Collection Date	Extraction Date	Surrogate: Analysis Date	d8 naphthalene	d8 naphthalene	d10 acenaphthene	d10 acenaphthene	d10 acenaphthene	d10 phenanthrene
2318-60	T1100	LMK136	Storm 1	01/17/05	1/20/2005	2/16/2005	22.8	10.1 U	8.64 U	8.15 U	7.20 U	20.6
2318-62	T1102	GC-SAN	Storm 1	01/17/05	1/20/2005	2/16/2005	16.5 J	8.57 U	7.30 U	6.89 U	6.08 U	9.37 U
2318-63	T1103	AC	Storm 1	01/17/05	1/20/2005	2/16/2005	10.3 J	9.68 U	8.24 U	7.78 U	6.87 U	10.6 U
2318-64 R-1	T1104	LMK122	Storm 1	01/17/05	1/21/2005	2/16/2005	74.8	50.4 E	7.30 U	6.89 U	15.8 J	56.9
2318-65	T1105	LMK038	Storm 1	01/17/05	1/21/2005	2/16/2005	20.0	8.70 U	7.41 U	6.99 U	6.18 U	18.6 J
2318-66	T1106	PO-POBLVD	Storm 1	01/17/05	1/21/2005	2/16/2005	8.60 J	7.98 U	6.80 U	6.42 U	5.66 U	13.2 J
2318-71	T1114	AC-DUP	Storm 1	01/17/05	1/21/2005	2/16/2005	10.2 J	8.57 U	7.30 U	6.89 U	6.08 U	9.37 U
2318-128	T1107	LMK 136	Storm 2	01/22/05	1/26/2005	2/16/2005	10.9 J	8.09 U	6.89 U	6.50 U	5.74 U	8.85 U
2318-129	T1111	LMK 122	Storm 2	01/22/05	1/26/2005	2/16/2005	12.8 J	8.24 U	7.02 U	6.62 U	5.85 U	10.1 J
2318-130	T1112	LMK 038	Storm 2	01/22/05	1/26/2005	2/16/2005	152	32.0 E	7.18 U	6.78 U	5.98 U	9.23 U
2318-131	T1113	PO-POBLVD	Storm 2	01/22/05	1/26/2005	2/16/2005	10.0 J	7.77 U	6.62 U	6.25 U	5.52 U	8.50 U
LABORAT	ORY REPO	RTING LIMIT ((RL)				20	20	20	20	20	20

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SINCLAIR AND DYES INLET 2005 STORMWATER

Gorst Stormwater

PAH/Phthalate Results for Water Samples Reported in ng/L

					anthracene	fluoranthene	pyrene	benz[a]anthracene	chrysene	benzo[b]fluoranthene	benzo[k]fluoranthene
MSL Sample ID	Client ID	Site Description	Event	Collection Date	d10 phenanthrene	d12 chrysene	d12 chrysene	d12 chrysene	d12 chrysene	d12 perylene	d12 perylene
2318-60	T1100	LMK136	Storm 1	01/17/05	7.82 U	29.3	31.2	12.9 J	18.7 J	18.1 J	9.81 U
2318-62	T1102	GC-SAN	Storm 1	01/17/05	6.60 U	10.2 U	10.6 U	9.14 U	10.1 U	8.73 U	8.29 U
2318-63	T1103	AC	Storm 1	01/17/05	7.46 U	11.5 U	12.0 U	10.3 U	11.4 U	9.86 U	9.36 U
2318-64 R-1	T1104	LMK122	Storm 1	01/17/05	19.7 J	45.8	10.6 U	18.7 J	47.3	21.5	8.29 U
2318-65	T1105	LMK038	Storm 1	01/17/05	6.71 U	41.0	37.8	12.6 J	22.6	24.4	8.42 U
2318-66	T1106	PO-POBLVD	Storm 1	01/17/05	6.15 U	22.4	27.2	8.51 U	13.1 J	12.4 J	7.72 U
2318-71	T1114	AC-DUP	Storm 1	01/17/05	6.60 U	10.2 U	10.6 U	9.14 U	10.1 U	8.73 U	8.29 U
2318-128	T1107	LMK 136	Storm 2	01/22/05	6.23 U	9.63 U	10.1 U	8.63 U	9.50 U	8.24 U	7.82 U
2318-129	T1111	LMK 122	Storm 2	01/22/05	11.2 J	10.2 J	15.7 J	8.79 U	9.68 U	8.39 U	7.97 U
2318-130	T1112	LMK 038	Storm 2	01/22/05	6.50 U	10.0 U	10.5 U	8.99 U	9.91 U	8.59 U	8.16 U
2318-131	T1113	PO-POBLVD	Storm 2	01/22/05	5.99 U	9.25 U	9.66 U	8.29 U	9.13 U	7.92 U	7.52 U
LABORAT	ORY REPO	RTING LIMIT ((RL)		20	20	20	20	20	20	20

SINCLAIR AND DYES INLET 2005 STORMWATER Gorst Stormwater

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PAH/Phthalate Results for Water Samples Reported in ng/L

Phthalate Results

				benzo[a]pyrene	indeno[1,2,3-c,d]pyrene	dibenz[a,h]anthracene	benzo[g,h,i]perylene	di-N-butyl phthalate	butylbenzyl phthalate	
MSL Sample ID	Client ID	Site Description	Event	Collection Date	d12 perylene	d12 perylene	d12 perylene	d12 perylene	d10 phenanthrene	d12 chrysene
2318-60	T1100	LMK136	Storm 1	01/17/05	11.6 U	12.5 J	9.08 U	16.0 J	768 BE	425 BE
2318-62	T1102	GC-SAN	Storm 1	01/17/05	9.83 U	8.16 U	7.67 U	8.20 U	256 BE	140 BE
2318-63	T1103	AC	Storm 1	01/17/05	11.1 U	9.21 U	20.9 B	9.26 U	1375 BE	738 BE
2318-64 R-1	T1104	LMK122	Storm 1	01/17/05	13.9 J	12.0 J	7.67 U	16.8 J	372 BE	240 BE
2318-65	T1105	LMK038	Storm 1	01/17/05	13.7 J	14.5 J	7.79 U	16.2 J	149 BE	179 BE
2318-66	T1106	PO-POBLVD	Storm 1	01/17/05	9.16 U	7.98 J	7.14 U	12.9 J	156 BE	143 BE
2318-71	T1114	AC-DUP	Storm 1	01/17/05	9.83 U	8.16 U	7.67 U	8.20 U	161 BE	113 BE
2318-128	T1107	LMK 136	Storm 2	01/22/05	9.28 U	7.70 U	7.24 U	7.74 U	569 BE	246 BE
2318-129	T1111	LMK 122	Storm 2	01/22/05	9.45 U	7.84 U	7.37 U	7.88 U	673 BE	285 BE
2318-130	T1112	LMK 038	Storm 2	01/22/05	9.67 U	8.03 U	7.55 U	8.07 U	174 BE	168 BE
2318-131	T1113	PO-POBLVD	Storm 2	01/22/05	8.92 U	7.40 U	6.96 U	7.43 U	118 BE	108 BE
LABORAT	ORY REPO	RTING LIMIT ((RL)		20	20	20	20	40	40

SINCLAIR AND DYES INLET 2005 STORMWATER
Gorst Stormwater

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PAH/Phthalate Results for Water Samples Reported in ng/L

Surrogate Recoveries

					SMIT OF THE PROPERTY OF THE PR							
					bis(2- ethylhexyl) phthalate	d8 naphthalene	d10 acenaphthene	d10 phenanthrene	d12 chrysene	d12 perylene		
					-	(%)	(%)	(%)	(%)	(%)		
MSL		Site		Collection								
Sample ID	Client ID	Description	Event	Date	d12 perylene							
2318-60	T1100	LMK136	Storm 1	01/17/05	3769 BE	85%	96%	111%	106%	106%		
318-62	T1102	GC-SAN	Storm 1	01/17/05	860 BE	82%	94%	102%	94%	97%		
2318-63	T1103	AC	Storm 1	01/17/05	1509 BE	75%	82%	89%	82%	82%		
2318-64 R-1	T1104	LMK122	Storm 1	01/17/05	2862 BE	63%	75%	83%	79%	82%		
2318-65	T1105	LMK038	Storm 1	01/17/05	2411 BE	69%	76%	80%	78%	76%		
2318-66	T1106	PO-POBLVD	Storm 1	01/17/05	2658 BE	59%	68%	72%	70%	72%		
2318-71	T1114	AC-DUP	Storm 1	01/17/05	1435 BE	62%	66%	71%	65%	62%		
318-128	T1107	LMK 136	Storm 2	01/22/05	1031 BE	60%	63%	73%	71%	68%		
2318-129	T1111	LMK 122	Storm 2	01/22/05	2891 BE	64%	65%	79%	82%	77%		
318-130	T1112	LMK 038	Storm 2	01/22/05	1778 BE	58%	61%	70%	67%	68%		
2318-131	T1113	PO-POBLVD	Storm 2	01/22/05	870 BE	64%	65%	71%	74%	73%		

LABORATORY REPORTING LIMIT (RL)

40

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SINCLAIR AND DYES INLET 2005 STORMWATER

Sinclair Inlet Stormwater

PAH/Phthalate Results for Water Samples Reported in ng/L

PAH Results

							naphthalene	2 methyl naphthalene	acenaphthalene	acenaphthene	fluorine	phenanthrene
						Surrogate:	•	паритнасис	асспаришанене	асепаришене	nuorme	риспанин ене
MSL Sample ID	Client ID	Site Description	Event	Collection Date	Extraction Date		d8 naphthalene	d8 naphthalene	d10 acenaphthene	d10 acenaphthene	d10 acenaphthene	d10 phenanthrene
2318-232	T1200	BL	Storm 1	03/01/05	03/04/05	3/18/2005	14.8 J	5.68 U	7.26 U	6.85 U	6.05 U	9.32 U
2318-233	T1201	OC	Storm 1	03/01/05	03/04/05	3/18/2005	4.97 U	5.95 U	7.61 U	7.18 U	6.34 U	13.3 J
2318-234	T1202	B-ST28	Storm 1	03/01/05	03/04/05	3/18/2005	25.7	68.3 E	14.1 J	10.5 U	30.0	144
2318-235	T1203	B-ST/CSO16	Storm 1	03/01/05	03/04/05	3/18/2005	18.0 J	7.12 J	8.08 J	8.85 J	15.7 J	144
2318-236	T1204	PSNS015	Storm 1	03/01/05	03/04/05	3/18/2005	19.6 J	15.6 J	6.52 U	6.15 U	9.89 J	38.5
2318-237	T1205	PSNS124	Storm 1	03/01/05	03/04/05	3/18/2005	20.3	8.70 U	11.1 U	10.5 U	9.26 U	28.2
2318-309	T1209	B-ST28	Storm 2	03/20/05	03/23/05	4/30/2005	15.4 J	8.92 J	8.53 U	8.04 U	7.10 U	44.8
2318-310	T1210	B-ST/CSO16	Storm 2	03/20/05	03/23/05	4/30/2005	53.5	35.8 E	14.9 J	18.3 J	32.2	384
2318-311	T1211	PSNS015	Storm 2	03/20/05	03/23/05	4/30/2005	48.0	13.2 J	7.75 U	7.31 U	9.45 J	54.2
2318-312	T1212	PSNS124	Storm 2	03/20/05	03/23/05	4/30/2005	32.4	11.1 U	14.2 U	13.4 U	11.8 U	72.0
2318-320	T1221	B-ST12	Storm 2	03/20/05	03/23/05	4/30/2005	44.2	19.2 J	7.99 U	7.54 U	7.47 J	156
LABORATO	RY REPOI	RTING LIMIT (RI	L)				20	20	20	20	20	20

SINCLAIR AND DYES INLET 2005 STORMWATER

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Sinclair Inlet Stormwater PAH/Phthalate Results for Water Samples Reported in ng/L

		anthracene	fluoranthene	pyrene	benz[a]anthracene	chrysene	benzo[b]fluoranthene			
MSL Sample	e Client ID	Site Description	Event	Collection Date	d10 phenanthrene	d12 chrysene	d12 chrysene	d12 chrysene	d12 chrysene	d12 perylene
2318-232	T1200	BL	Storm 1	03/01/05	6.57 U	10.1 U	10.6 U	9.09 U	10.0 U	8.68 U
2318-233	T1201	OC	Storm 1	03/01/05	14.9 J	28.5	28.3	10.6 J	18.5 J	18.2 J
2318-234	T1202	B-ST28	Storm 1	03/01/05	15.9 J	240	284	50.7	138	119
2318-235	T1203	B-ST/CSO16	Storm 1	03/01/05	13.5 J	381	312	78.1	169	169
2318-236	T1204	PSNS015	Storm 1	03/01/05	42.5	43.9	47.0	11.2 J	20.6	19.5 J
2318-237	T1205	PSNS124	Storm 1	03/01/05	10.1 U	43.3	29.5	13.9 U	15.3 U	13.3 U
2318-309	T1209	B-ST28	Storm 2	03/20/05	7.71 U	164	160	43.2	89.6	109
2318-310	T1210	B-ST/CSO16	Storm 2	03/20/05	44.4	735	576	200	303	370
2318-311	T1211	PSNS015	Storm 2	03/20/05	7.01 U	68.4	70.7	19.2 J	40.9	36.2
2318-312	T1212	PSNS124	Storm 2	03/20/05	12.8 U	79.0	99.3	18.4 J	32.7	24.7
2318-320	T1221	B-ST12	Storm 2	03/20/05	12.2 J	471	329	117	211	281
LABORATO	ABORATORY REPORTING LIMIT (RL)					20	20	20	20	20

SINCLAIR AND DYES INLET 2005 STORMWATER Sinclair Inlet Stormwater

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PAH/Phthalate Results for Water Samples Reported in ng/L

					benzo[k]fluoranthene	benzo[a]pyrene	indeno[1,2,3-c,d]pyrene	dibenz[a,h]anthracene	benzo[g,h,i]perylene
MSL Sample		Site Description	Event	Collection Date	d12 perylene	d12 perylene	d12 perylene	d12 perylene	d12 perylene
2318-232	T1200	BL	Storm 1	03/01/05	8.24 U	9.78 U	8.11 U	7.63 U	8.15 U
2318-233	T1201	OC	Storm 1	03/01/05	8.63 U	10.2 U	12.8 J	12.8 J	14.9 J
2318-234	T1202	B-ST28	Storm 1	03/01/05	36.7	44.6 B	67.5	429	136
2318-235	T1203	B-ST/CSO16	Storm 1	03/01/05	55.4	85.8 B	101	24.5	129
2318-236	T1204	PSNS015	Storm 1	03/01/05	7.52 J	11.3 JB	9.92 Ј	16.0 J	16.0 J
2318-237	T1205	PSNS124	Storm 1	03/01/05	12.6 U	15.0 U	12.4 U	11.7 U	12.5 U
2318-309	T1209	B-ST28	Storm 2	03/20/05	33.8	52.0 B	66.9	25.6	89.2
2318-310	T1210	B-ST/CSO16	Storm 2	03/20/05	125	216 B	221	42.3	231
2318-311	T1211	PSNS015	Storm 2	03/20/05	9.62 J	20.0 B	21.1	8.14 U	33.0
2318-312	T1212	PSNS124	Storm 2	03/20/05	16.1 U	90.0 B	15.9 U	14.9 U	15.9 U
2318-320	T1221	B-ST12	Storm 2	03/20/05	97.7	145 B	153	28.1	135
LABORATO	RY REPOI	RTING LIMIT (RI	<u>(</u>)		20	20	20	20	20

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SINCLAIR AND DYES INLET 2005 STORMWATER

Sinclair Inlet Stormwater

PAH/Phthalate Results for Water Samples Reported in ng/L

Phthalate Results **Surrogate Recoveries** bis (2di-N-butyl butylbenzyl ethylhexyl) d8 d10 d10 d12 d12 phthalate phthalate phthalate naphthalene acenaphthene phenanthrene chrysene perylene (%) (%) (%) (%) (%) MSL Sample Collection d10 ID Client ID Site Description Event Date phenanthrene d12 chrysene d12 perylene 2318-232 T1200 BLStorm 1 03/01/05 **721** BE 443 BE 1136 BE 83% 87% 97% 94% 92% OC **476** BE 2318-233 T1201 Storm 1 03/01/05 425 BE 1405 BE 49% 69% 80% 76% 76% 2318-234 T1202 B-ST28 Storm 1 03/01/05 1037 BE 2103 BE **5785** E 50% 76% 82% 68% 81% 2318-235 T1203 B-ST/CSO16 Storm 1 03/01/05 432 BE 1022 BE **5805** E 49% 72% 77% 65% 73% 2318-236 T1204 PSNS015 Storm 1 03/01/05 390 BE **602** BE 1937 BE 65% 69% 71% 49% 69% 2318-237 T1205 PSNS124 Storm 1 03/01/05 **511** BE **2016** BE **3088** BE 69% 75% 84% 63% 82% 2318-309 T1209 B-ST28 Storm 2 03/20/05 **634** BE **697** BE 6230 BE 46% 40% 51% 57% 67% 2318-310 T1210 B-ST/CSO16 Storm 2 03/20/05 3307 BE 1167 BE 12041 BE 78% 88% 103% 96% 105% 2318-311 T1211 PSNS015 Storm 2 03/20/05 1560 BE 997 BE 6507 BE 81% 85% 107% 97% 98% 2318-312 PSNS124 03/20/05 **2241** BE 1932 E **5787** BE 73% 75% 99% 95% 88% T1212 Storm 2 2318-320 T1221 B-ST12 Storm 2 03/20/05 770 BE 313 BE 2808 BE 94% 96% 102% 88% 89% LABORATORY REPORTING LIMIT (RL) 40 40 40

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SINCLAIR AND DYES INLET 2005 STORMWATER

Dyes Inlet and Springbrook Creek Stormwater

PAH/Phthalate Results for Water Samples Reported in ng/L

PAH Results

							nonhtholono	2 methyl naphthalene	acenaphthalene	acenaphthene	fluorine
					J		naphthalene	парпипанене	acenaphtnaiene	асепаришене	Huorine
MCI Comple		Site		Collection	Extraction	Surrogate:	-				
MSL Sample	CIL 4 ID		T			Analysis			d10	d10	d10
ID	Client ID	Description	Event	Date	Date	Date	d8 naphthalene	d8 naphthalene	acenaphthene	acenaphthene	acenaphthene
2318-374	T1305	SW6	Storm 1	03/27/05	3/29/2005	4/30/2005	20.5	7.77 J	7.35 U	6.93 U	6.12 U
2318-376	T1306	B-ST12	Storm 1	03/27/05	3/29/2005	5/1/2005	9.72 J	4.95 U	6.33 U	5.97 U	5.27 U
2318-380	T1301	BA	Storm 1	03/27/05	3/29/2005	5/1/2005	11.3 J	5.29 U	6.76 U	6.38 U	5.63 U
2318-382 R-1	T1302	CC	Storm 1	03/27/05	3/29/2005	5/1/2005	14.7 J	7.14 U	9.13 U	8.61 U	7.60 U
2318-386	T1304	CH	Storm 1	03/27/05	3/29/2005	5/1/2005	12.6 J	9.01 U	11.5 U	10.9 U	9.59 U
2318-389	T1307	B-ST01	Storm 1	03/27/05	3/29/2005	5/1/2005	18.2 J	33.8	8.76 U	8.26 U	13.0 J
2318-445	T1313	SW6	Storm 2	04/01/05	4/5/2005	5/1/2005	12.5 J	8.10 U	10.4 U	9.77 U	8.62 U
2318-446 R-1	T1314	B-ST12	Storm 2	04/01/05	4/5/2005	5/1/2005	6.30 U	7.55 U	9.65 U	9.10 U	8.04 U
2318-450	T1311	SC	Storm 2	04/01/05	4/5/2005	5/1/2005	9.80 J	5.95 U	7.61 U	7.18 U	6.34 U
2318-452	T1315	B-ST01	Storm 2	04/01/05	4/5/2005	5/1/2005	8.53 J	6.62 U	8.46 U	7.98 U	7.05 U
2318-453 B	T1300	BI-SBC	Make-up Storm	04/11/05	4/13/2005	5/1/2005	11.6 J	5.56 U	7.11 U	6.70 U	5.92 U
2318-504	T1316	BI-SBC	Wet Season Baseflow	03/30/05	4/5/2005	5/1/2005	7.72 J	7.41 U	9.47 U	8.94 U	7.89 U
2318-506	T1318	CC	Wet Season Baseflow	03/30/05	4/5/2005	5/1/2005	11.8 J	10.0 U	12.8 U	12.1 U	10.6 U
2318-508	T1320	CH	Wet Season Baseflow	03/30/05	4/5/2005	5/1/2005	6.42 U	7.69 U	9.83 U	9.27 U	8.19 U
2318-509	T1321	SW6	Wet Season Baseflow	03/30/05	4/5/2005	5/1/2005	17.0 J	4.29 U	5.48 U	5.17 U	4.57 U
2318-510	T1322	B-ST12	Wet Season Baseflow	03/30/05	4/5/2005	5/1/2005	5.52 U	6.62 U	8.46 U	7.98 U	7.05 U
2318-511	T1323	B-ST01	Wet Season Baseflow	03/30/05	4/5/2005	5/1/2005	6.05 U	7.25 U	9.27 U	8.74 U	7.72 U
LABORATOI	RY REPORT	TING LIMIT (RL)				20	20	20	20	20

SINCLAIR AND DYES INLET 2005 STORMWATER

1529 West Sequim Bay Road Sequim, Washington 98382 (360) 681-4564 **Dyes Inlet and Springbrook Creek Stormwater** PAH/Phthalate Results for Water Samples Reported in ng/L

					phenanthrene	anthracene	fluoranthene	pyrene	benz[a]anthracene	chrysene
MSL Sample	Client ID	Site Description	Event	Collection Date	d10 phenanthrene	d10 phenanthrene	d12 chrysene	d12 chrysene	d12 chrysene	d12 chrysene
2318-374	T1305	SW6	Storm 1	03/27/05	112	12.2 J	307	233	64.6	146
2318-376	T1306	B-ST12	Storm 1	03/27/05	132	11.9 J	417	303	115	196
2318-380	T1301	BA	Storm 1	03/27/05	8.68 U	6.12 U	9.45 U	9.87 U	8.47 U	9.32 U
2318-382 R-1	T1302	CC	Storm 1	03/27/05	11.7 U	8.26 U	13.2 J	14.6 J	11.4 U	12.6 U
2318-386	T1304	CH	Storm 1	03/27/05	14.8 U	10.4 U	16.1 U	29.3	14.4 U	15.9 U
2318-389	T1307	B-ST01	Storm 1	03/27/05	44.5	7.92 U	49.3	49.1	12.5 J	26.6
2318-445	T1313	SW6	Storm 2	04/01/05	13.3 U	9.37 U	14.5 U	15.1 U	13.0 U	14.3 U
2318-446 R-1	T1314	B-ST12	Storm 2	04/01/05	59.7	8.73 U	206	148	47.0	97.2
2318-450	T1311	SC	Storm 2	04/01/05	9.77 U	6.88 U	10.6 U	11.1 U	9.52 U	10.5 U
2318-452	T1315	B-ST01	Storm 2	04/01/05	34.0	7.65 U	58.4	85.9	13.7 J	33.7
2318-453 B	T1300	BI-SBC	Make-up Storm	04/11/05	9.13 U	6.43 U	9.93 U	10.4 U	8.90 U	9.80 U
2318-504	T1316	BI-SBC	Wet Season Baseflow	03/30/05	12.2 U	8.57 U	13.2 U	13.8 U	11.9 U	13.1 U
2318-506	T1318	CC	Wet Season Baseflow	03/30/05	16.4 U	11.6 U	17.9 U	18.7 U	16.0 U	17.6 U
2318-508	T1320	CH	Wet Season Baseflow	03/30/05	12.6 U	8.89 U	13.7 U	14.3 U	12.3 U	13.6 U
2318-509	T1321	SW6	Wet Season Baseflow	03/30/05	7.63 J	4.96 U	7.66 U	8.00 U	6.86 U	7.56 U
2318-510	T1322	B-ST12	Wet Season Baseflow	03/30/05	10.9 U	7.65 U	19.6 J	21.3	11.6 J	13.7 J
2318-511	T1323	B-ST01	Wet Season Baseflow	03/30/05	11.9 U	8.38 U	12.9 U	13.5 U	11.6 U	12.8 U
LABORATOR	RY REPORT	TING LIMIT (RL)		20	20	20	20	20	20

SINCLAIR AND DYES INLET 2005 STORMWATER

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Dyes Inlet and Springbrook Creek Stormwater PAH/Phthalate Results for Water Samples Reported in ng/L

					benzo[b]fluoranthene	benzo[k]fluoranthene	benzo[a]pyrene	indeno[1,2,3-c,d]pyrene	dibenz[a,h]anthracene
MSL Sample	Client ID	Site Description	Event	Collection Date	d12 perylene	d12 perylene	d12 perylene	d12 perylene	d12 perylene
2318-374	T1305	SW6	Storm 1	03/27/05	180	60.8	86.2	98.0	17.3 J
2318-376	T1306	B-ST12	Storm 1	03/27/05	271	93.2	141	149	27.2
2318-380	T1301	BA	Storm 1	03/27/05	8.09 U	7.68 U	9.11 U	7.56 U	7.10 U
2318-382 R-1	T1302	CC	Storm 1	03/27/05	10.9 U	10.4 U	12.3 U	10.2 U	9.59 U
2318-386	T1304	CH	Storm 1	03/27/05	13.8 U	13.1 U	26.1	12.9 U	12.1 U
2318-389	T1307	B-ST01	Storm 1	03/27/05	29.4	9.94 U	12.6 J	16.8 J	9.20 U
2318-445	T1313	SW6	Storm 2	04/01/05	12.4 U	11.8 U	13.9 U	11.6 U	10.9 U
2318-446 R-1	T1314	B-ST12	Storm 2	04/01/05	127	43.2	59.9	67.2	11.2 J
2318-450	T1311	SC	Storm 2	04/01/05	9.09 U	8.63 U	10.2 U	8.50 U	7.99 U
2318-452	T1315	B-ST01	Storm 2	04/01/05	25.9	9.61 U	130	14.1 J	8.89 U
2318-453 B	T1300	BI-SBC	Make-up Storm	04/11/05	8.50 U	8.07 U	9.57 U	7.94 U	7.47 U
2318-504	T1316	BI-SBC	Wet Season Baseflow	03/30/05	11.3 U	10.8 U	12.8 U	10.6 U	9.95 U
2318-506	T1318	CC	Wet Season Baseflow	03/30/05	15.3 U	14.5 U	17.2 U	14.3 U	13.4 U
2318-508	T1320	CH	Wet Season Baseflow	03/30/05	11.8 U	11.2 U	13.2 U	11.0 U	10.3 U
2318-509	T1321	SW6	Wet Season Baseflow	03/30/05	6.56 U	6.23 U	7.39 U	6.13 U	5.76 U
2318-510	T1322	B-ST12	Wet Season Baseflow	03/30/05	14.9 J	9.61 U	11.4 U	9.46 U	34.9
2318-511	T1323	B-ST01	Wet Season Baseflow	03/30/05	11.1 U	10.5 U	12.5 U	10.4 U	9.74 U
LABORATOI	RY REPORT	ΓING LIMIT (RL)		20	20	20	20	20

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SINCLAIR AND DYES INLET 2005 STORMWATER

Dyes Inlet and Springbrook Creek Stormwater

PAH/Phthalate Results for Water Samples Reported in ng/L

Phthalate Results

					benzo[g,h,i]perylene	di-N-butyl phthalate	butylbenzyl phthalate	bis(2- ethylhexyl) phthalate
MSL Sample ID	Client ID	Site Description	Event	Collection Date	d12 perylene	d10 phenanthrene	d12 chrysene	d12 perylene
2318-374	T1305	SW6	Storm 1	03/27/05	96.0	1293 EB	365 EB	3732 EB
2318-376	T1306	B-ST12	Storm 1	03/27/05	135	752 EB	242 EB	2340 EB
2318-380	T1301	BA	Storm 1	03/27/05	7.59 U	539 EB	89.4 EB	340 EB
2318-382 R-1	T1302	CC	Storm 1	03/27/05	10.2 U	3602 EB	278 EB	1408 EB
2318-386	T1304	CH	Storm 1	03/27/05	12.9 U	981 EB	162 EB	681 EB
2318-389	T1307	B-ST01	Storm 1	03/27/05	20.9	610 EB	322 EB	2033 EB
2318-445	T1313	SW6	Storm 2	04/01/05	11.6 U	992 EB	165 EB	544 EB
2318-446 R-1	T1314	B-ST12	Storm 2	04/01/05	62.2	840 EB	189 EB	2542 EB
2318-450	T1311	SC	Storm 2	04/01/05	8.54 U	371 EB	96.0 EB	751 EB
2318-452	T1315	B-ST01	Storm 2	04/01/05	20.2	754 EB	465 EB	5029 E
2318-453 B	T1300	BI-SBC	Make-up Storm	04/11/05	7.98 U	289 EB	81.4 EB	389 EB
2318-504	T1316	BI-SBC	Wet Season Baseflow	03/30/05	10.6 U	417 EB	133 EB	303 EB
2318-506	T1318	CC	Wet Season Baseflow	03/30/05	14.4 U	674 EB	152 EB	474 EB
2318-508	T1320	CH	Wet Season Baseflow	03/30/05	11.0 U	1099 EB	220 EB	1387 EB
2318-509	T1321	SW6	Wet Season Baseflow	03/30/05	6.16 U	144 EB	60.7 EB	119 EB
2318-510	T1322	B-ST12	Wet Season Baseflow	03/30/05	9.50 U	410 EB	97.5 EB	530 EB
2318-511	T1323	B-ST01	Wet Season Baseflow	03/30/05	10.4 U	244 EB	104 EB	235 EB
LABORATOR	RY REPORT	TING LIMIT (RL)		20	40	40	40

SINCLAIR AND DYES INLET 2005 STORMWATER Dyes Inlet and Springbrook Creek Stormwater

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PAH/Phthalate Results for Water Samples

Surrogate Recoveries

					d8	d10	d10	d12	d12
					naphthalene	acenaphthene	phenanthrene	chrysene	perylene
MSL Sample		Site		Collection	(%)	(%)	(%)	(%)	(%)
ID	Client ID	Description	Event	Date					
2318-374	T1305	SW6	Storm 1	03/27/05	93%	96%	104%	96%	99%
2318-376	T1306	B-ST12	Storm 1	03/27/05	64%	76%	100%	96%	102%
2318-380	T1301	BA	Storm 1	03/27/05	80%	83%	95%	90%	94%
2318-382 R-1	T1302	CC	Storm 1	03/27/05	83%	91%	111%	106%	110%
2318-386	T1304	CH	Storm 1	03/27/05	72%	78%	90%	89%	91%
2318-389	T1307	B-ST01	Storm 1	03/27/05	63%	72%	90%	85%	81%
2318-445	T1313	SW6	Storm 2	04/01/05	77%	85%	105%	103%	107%
318-446 R-1	T1314	B-ST12	Storm 2	04/01/05	73%	86%	102%	99%	106%
318-450	T1311	SC	Storm 2	04/01/05	67%	79%	92%	87%	91%
318-452	T1315	B-ST01	Storm 2	04/01/05	60%	71%	119%	74%	59%
318-453 B	T1300	BI-SBC	Make-up Storm	04/11/05	65%	73%	79%	74%	78%
318-504	T1316	BI-SBC	Wet Season Baseflow	03/30/05	64%	73%	94%	94%	95%
318-506	T1318	CC	Wet Season Baseflow	03/30/05	60%	64%	91%	100%	101%
318-508	T1320	CH	Wet Season Baseflow	03/30/05	88%	85%	109%	104%	100%
318-509	T1321	SW6	Wet Season Baseflow	03/30/05	89%	87%	107%	86%	81%
318-510	T1322	B-ST12	Wet Season Baseflow	03/30/05	90%	93%	112%	87%	85%
2318-511	T1323	B-ST01	Wet Season Baseflow	03/30/05	81%	84%	118%	113%	109%

LABORATORY REPORTING LIMIT (RL)

Field Data Summary: 2005 Storm Water Organic Contaminants -PCBs

- Gorst
- Sinclair Inlet
- Dyes Inlet, Wet Season Baseflow

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SINCLAIR AND DYES INLET 2005 STORMWATER

Gorst Stormwater

PCB/Aroclor 1268 Results for Water Samples

							Aroclor 1268	PCB008	PCB018	PCB028	PCB052	PCB044	PCB066	PCB101
MSL Sample ID	Client ID	Site Description	Event	Collection Date	Extraction Date	Analysis Date	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)
2318-60	T1100	LMK136	Storm 1	01/17/05	1/20/2005	2/18/2005	22.0 U	0.777 U	0.507 U	0.216 U	0.892 U	0.372 U	0.284 U	0.128 U
2318-62	T1102	GC-SAN	Storm 1	01/17/05	1/20/2005	2/18/2005	18.6 U	0.657 U	0.429 U	0.183 U	0.754 U	0.314 U	0.240 U	0.109 U
2318-63	T1103	AC	Storm 1	01/17/05	1/20/2005	2/18/2005	21.0 U	0.742 U	0.484 U	0.206 U	0.852 U	0.355 U	0.271 U	0.123 U
2318-64 R-1	T1104	LMK122	Storm 1	01/17/05	1/21/2005	2/18/2005	18.6 U	7.31	0.429 U	0.183 U	0.754 U	0.314 U	0.240 U	0.109 U
2318-65	T1105	LMK038	Storm 1	01/17/05	1/21/2005	2/18/2005	18.9 U	0.667 U	0.435 U	0.186 U	0.765 U	0.319 U	0.243 U	0.110 U
2318-66	T1106	PO-POBLVD	Storm 1	01/17/05	1/21/2005	2/18/2005	17.3 U	0.612 U	0.399 U	0.170 U	0.702 U	0.293 U	0.223 U	0.101 U
2318-71	T1114	AC-DUP	Storm 1	01/17/05	1/21/2005	2/19/2005	18.6 U	0.657 U	0.429 U	0.183 U	0.754 U	0.314 U	0.240 U	0.109 U
2318-128	T1107	LMK 136	Storm 2	01/22/05	1/26/2005	2/19/2005	17.6 U	0.620 U	0.404 U	0.173 U	0.712 U	0.296 U	0.226 U	0.102 U
2318-129	T1111	LMK 122	Storm 2	01/22/05	1/26/2005	2/19/2005	17.9 U	0.632 U	0.412 U	0.176 U	0.725 U	0.302 U	0.231 U	0.104 U
2318-130	T1112	LMK 038	Storm 2	01/22/05	1/26/2005	2/19/2005	18.3 U	0.646 U	0.421 U	0.180 U	0.742 U	0.309 U	0.236 U	0.107 U
2318-131	T1113	PO-POBLVD	Storm 2	01/22/05	1/26/2005	2/19/2005	16.9 U	0.596 U	0.389 U	0.166 U	0.684 U	0.285 U	0.218 U	0.098 U
LABORATORY REPORTING LIMIT (RL)							40	2	2	2	2	2	2	2

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SINCLAIR AND DYES INLET 2005 STORMWATER

Gorst Stormwater

					PCB077	PCB118	PCB153	PCB105	PCB138	PCB126	PCB187	PCB128	PCB200	PCB180
MSL Sample		Site		Collection										
ID	Client ID	Description	Event	Date	(ng/L)									
2318-60	T1100	LMK136	Storm 1	01/17/05	0.149 U	0.155 U	0.115 U	0.115 U	0.122 U	0.250 U	0.243 U	0.196 U	0.270 U	0.216 U
2318-62	T1102	GC-SAN	Storm 1	01/17/05	0.126 U	0.131 U	0.097 U	0.097 U	0.103 U	0.211 U	0.394 J	0.166 U	0.229 U	0.183 U
2318-63	T1103	AC	Storm 1	01/17/05	0.142 U	0.148 U	0.110 U	0.110 U	0.116 U	0.239 U	0.232 U	0.187 U	0.258 U	0.206 U
2318-64 R-1	T1104	LMK122	Storm 1	01/17/05	0.126 U	0.131 U	0.097 U	0.097 U	1.89 J	0.211 U	0.206 U	0.166 U	0.229 U	0.183 U
2318-65	T1105	LMK038	Storm 1	01/17/05	0.128 U	0.133 U	0.099 U	0.099 U	0.104 U	0.214 U	0.209 U	0.168 U	0.232 U	0.186 U
2318-66	T1106	PO-POBLVD	Storm 1	01/17/05	0.117 U	0.122 U	0.090 U	0.090 U	0.096 U	0.197 U	0.191 U	0.154 U	0.213 U	0.170 U
2318-71	T1114	AC-DUP	Storm 1	01/17/05	0.651 J	0.131 U	0.097 U	0.097 U	0.103 U	0.211 U	0.206 U	0.166 U	0.512 J	0.183 U
2318-128	T1107	LMK 136	Storm 2	01/22/05	0.119 U	0.124 U	0.092 U	0.092 U	0.097 U	0.199 U	0.194 U	0.156 U	0.216 U	0.173 U
2318-129	T1111	LMK 122	Storm 2	01/22/05	0.121 U	0.126 U	0.093 U	1.38 J	0.099 U	0.203 U	0.198 U	0.159 U	0.220 U	0.176 U
2318-130	T1112	LMK 038	Storm 2	01/22/05	0.124 U	0.129 U	0.096 U	0.096 U	0.101 U	0.208 U	0.202 U	0.163 U	0.225 U	0.180 U
2318-131	T1113	PO-POBLVD	Storm 2	01/22/05	0.114 U	0.119 U	0.088 U	0.088 U	0.093 U	0.192 U	0.187 U	0.150 U	0.207 U	0.166 U
LABORATO	RY REPOR	RTING LIMIT ((RL)		2	2	2	2	2	2	2	2	2	2

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SINCLAIR AND DYES INLET 2005 STORMWATER

Gorst Stormwater

PCB/Aroclor 1268 Results for Water Samples

Surrogate	D	2000	mari	_
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	•	•			PCB170	PCB195	PCB103	PCB198
MSL Sample ID	Client ID	Site Description	Event	Collection Date	(ng/L)	(ng/L)	% Recovery	% Recovery
2318-60	T1100	LMK136	Storm 1	01/17/05	0.236 U	0.757 U	86%	153% #
2318-62	T1102	GC-SAN	Storm 1	01/17/05	0.200 U	0.640 U	84%	140% #
2318-63	T1103	AC	Storm 1	01/17/05	0.226 U	0.723 U	80%	129% #
2318-64 R-1	T1104	LMK122	Storm 1	01/17/05	0.200 U	0.640 U	72%	116%
2318-65	T1105	LMK038	Storm 1	01/17/05	0.203 U	0.649 U	83%	109%
2318-66	T1106	PO-POBLVD	Storm 1	01/17/05	0.186 U	0.596 U	67%	119%
2318-71	T1114	AC-DUP	Storm 1	01/17/05	0.200 U	0.640 U	70%	88%
2318-128	T1107	LMK 136	Storm 2	01/22/05	0.189 U	0.604 U	58%	82%
2318-129	T1111	LMK 122	Storm 2	01/22/05	0.192 U	0.615 U	87%	99%
2318-130	T1112	LMK 038	Storm 2	01/22/05	0.197 U	0.629 U	64%	63%
2318-131	T1113	PO-POBLVD	Storm 2	01/22/05	0.181 U	0.580 U	61%	80%
					_	_		

LABORATORY REPORTING LIMIT (RL)

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SINCLAIR AND DYES INLET 2005 STORMWATER

Sinclair Inlet Stormwater

							Aroclor 1268	PCB008	PCB018	PCB028	PCB052	PCB044	PCB066	PCB101
MSL		Site		Collection	Extraction	Analysis								
Sample ID	Client ID	Description	Event	Date	Date	Date	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)
2318-232	T1200	BL	Storm 1	03/01/05	03/04/05	03/24/05	18.5 U	0.653 U	0.426 U	0.182 U	0.750 U	0.313 U	0.239 U	0.108 U
2318-232	T1200	OC	Storm 1	03/01/05	03/04/05	03/24/05	19.4 U	0.685 U	0.446 U	0.192 U	0.786 U	0.327 U	0.250 U	0.113 U
2318-234	T1202	B-ST28	Storm 1	03/01/05	03/04/05	03/24/05	28.3 U	1.00 U	0.652 U	0.278 U	1.15 U	0.478 U	0.365 U	0.165 U
2318-235	T1203	B-ST/CSO16	Storm 1	03/01/05	03/04/05	03/24/05	20.2 U	5.75	0.466 U	0.199 U	0.820 U	0.342 U	0.261 U	0.118 U
2318-236	T1204	PSNS015	Storm 1	03/01/05	03/04/05	03/24/05	16.6 U	0.587 U	5.39 B	0.163 U	0.673 U	0.281 U	0.214 U	1.09 J
2318-237	T1205	PSNS124	Storm 1	03/01/05	03/04/05	03/24/05	28.3 U	1.00 U	0.652 U	0.278 U	1.15 U	0.478 U	0.365 U	0.165 U
2318-309	T1209	B-ST28	Storm 2	03/20/05	03/23/05	5/1/2005	21.7 U	3.40 B	0.50 U	0.21 U	0.88 U	0.37 U	0.28 U	0.13 U
2318-310	T1210	B-ST/CSO16	Storm 2	03/20/05	03/23/05	5/1/2005	27.6 U	0.97 U	0.64 U	0.27 U	1.12 U	0.47 U	0.36 U	0.16 U
2318-311	T1211	PSNS015	Storm 2	03/20/05	03/23/05	5/2/2005	19.8 U	0.70 U	0.45 U	0.19 U	0.80 U	0.33 U	0.25 U	0.12 U
2318-312	T1212	PSNS124	Storm 2	03/20/05	03/23/05	5/2/2005	36.2 U	1.28 U	0.83 U	0.36 U	1.47 U	0.61 U	0.47 U	20.5
2318-320	T1221	B-ST12	Storm 2	03/20/05	03/23/05	5/2/2005	20.4 U	0.72 U	0.47 U	0.20 U	0.83 U	0.34 U	0.26 U	0.12 U
LABORAT	ORY REPO	RTING LIMIT	(RL)				40	2	2	2	2	2	2	2

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SINCLAIR AND DYES INLET 2005 STORMWATER

Sinclair Inlet Stormwater

PCB/Aroclor 1268 Results for Water Samples

					PCB077	PCB118	PCB153	PCB105	PCB138	PCB126	PCB187	PCB128	PCB200	PCB180
MSL Sample ID	Client ID	Site Description	Event	Collection Date	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)
2318-232	T1200	BL	Storm 1	03/01/05	0.125 U	0.131 U	0.097 U	0.097 U	0.165 J	0.210 U	0.205 U	0.165 U	0.227 U	0.182 U
2318-233	T1201	OC	Storm 1	03/01/05	0.131 U	0.137 U	0.101 U	0.101 U	0.107 U	0.220 U	0.214 U	0.173 U	0.238 U	0.190 U
2318-234	T1202	B-ST28	Storm 1	03/01/05	0.191 U	0.200 U	0.148 U	0.148 U	0.157 U	0.322 U	0.313 U	0.252 U	0.348 U	0.278 U
2318-235	T1203	B-ST/CSO16	Storm 1	03/01/05	0.137 U	1.80 J	0.106 U	0.106 U	0.112 U	0.230 U	0.224 U	0.499 J	0.248 U	0.199 U
2318-236	T1204	PSNS015	Storm 1	03/01/05	0.112 U	0.117 U	0.087 U	0.936 J	0.092 U	0.189 U	0.184 U	0.148 U	0.204 U	0.163 U
2318-237	T1205	PSNS124	Storm 1	03/01/05	0.191 U	0.200 U	0.148 U	0.148 U	0.157 U	0.322 U	0.313 U	0.252 U	0.348 U	0.278 U
2318-309	T1209	B-ST28	Storm 2	03/20/05	0.15 U	0.15 U	0.11 U	0.11 U	1.74 J	0.25 U	0.24 U	0.19 U	0.27 U	0.21 U
2318-310	T1210	B-ST/CSO16	Storm 2	03/20/05	0.19 U	4.30	9.30	7.46	11.1	0.31 U	0.31 U	1.36 J	0.96 J	0.27 U
2318-311	T1211	PSNS015	Storm 2	03/20/05	0.13 U	0.14 U	0.10 U	0.10 U	0.11 U	0.22 U	0.22 U	0.18 U	0.24 U	0.19 U
2318-312	T1212	PSNS124	Storm 2	03/20/05	0.24 U	11.2	35.8	6.98	45.4	0.41 U	17.2	2.35	6.69	0.36 U
2318-320	T1221	B-ST12	Storm 2	03/20/05	0.14 U	0.14 U	0.11 U	0.11 U	0.11 U	0.23 U	0.23 U	0.18 U	0.25 U	0.20 U
LABORAT	ORY REPO	RTING LIMIT	(RL)		2	2	2	2	2	2	2	2	2	2

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SINCLAIR AND DYES INLET 2005 STORMWATER

Sinclair Inlet Stormwater

Surr	ogate	Reco	veries

					PCB170	PCB195	PCB103	PCB198
MSL Sample ID	Client ID	Site Description	Event	Collection Date	(ng/L)	(ng/L)	% Recovery	% Recovery
2318-232	T1200	BL	Storm 1	03/01/05	0.199 U	0.636 U	97%	106%
2318-233	T1201	OC	Storm 1	03/01/05	0.208 U	0.667 U	61%	92%
2318-234	T1202	B-ST28	Storm 1	03/01/05	0.304 U	1.13 J	73%	93%
2318-235	T1203	B-ST/CSO16	Storm 1	03/01/05	0.217 U	1.86 J	62%	79%
2318-236	T1204	PSNS015	Storm 1	03/01/05	0.179 U	0.571 U	67%	90%
2318-237	T1205	PSNS124	Storm 1	03/01/05	0.304 U	0.974 U	79%	109%
2318-309	T1209	B-ST28	Storm 2	03/20/05	0.23 U	0.75 U	66%	61%
2318-310	T1210	B-ST/CSO16	Storm 2	03/20/05	0.30 U	0.95 U	98%	110%
2318-311	T1211	PSNS015	Storm 2	03/20/05	0.21 U	0.68 U	101%	91%
2318-312	T1212	PSNS124	Storm 2	03/20/05	16.4	4.63	100%	101%
2318-320	T1221	B-ST12	Storm 2	03/20/05	0.22 U	0.70 U	78%	91%
LABORAT	ORY REPO	RTING LIMIT	(RL)		2	2		

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SINCLAIR AND DYES INLET 2005 STORMWATER

Dyes Inlet and Springbrook Creek Stormwater

							Aroclor 1268	PCB008	PCB018	PCB028	PCB052	PCB044	PCB066
MSL Sample ID	Client ID	Site Description	Event	Collection Date	Extraction Date	Analysis Date	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)
2318-374	T1305	SW6	Storm 1	03/27/05	3/29/2005	5/2/2005	18.7 U	0.66 U	4.85	0.18 U	0.76 U	10.1	0.24 U
2318-376	T1306	B-ST12	Storm 1	03/27/05	3/29/2005	5/2/2005	16.1 U	0.57 U	0.37 U	0.16 U	0.65 U	0.27 U	0.21 U
2318-380	T1301	BA	Storm 1	03/27/05	3/29/2005	5/2/2005	17.2 U	0.61 U	0.40 U	0.17 U	0.70 U	0.29 U	0.22 U
2318-382 R-1	T1302	CC	Storm 1	03/27/05	3/29/2005	5/2/2005	23.3 U	0.82 U	0.54 U	0.23 U	0.94 U	0.39 U	0.30 U
2318-386	T1304	CH	Storm 1	03/27/05	3/29/2005	5/2/2005	29.4 U	1.04 U	0.68 U	0.29 U	1.19 U	0.50 U	0.38 U
2318-389	T1307	B-ST01	Storm 1	03/27/05	3/29/2005	5/3/2005	22.3 U	0.79 U	0.51 U	0.22 U	0.90 U	0.38 U	0.29 U
2318-445	T1313	SW6	Storm 2	04/01/05	4/5/2005	5/3/2005	26.4 U	0.93 U	0.61 U	0.26 U	1.07 U	0.45 U	0.34 U
2318-446 R-1	T1314	B-ST12	Storm 2	04/01/05	4/5/2005	5/3/2005	24.6 U	0.87 U	0.57 U	0.24 U	1.00 U	0.42 U	0.32 U
2318-450	T1311	SC	Storm 2	04/01/05	4/5/2005	5/3/2005	19.4 U	0.68 U	0.45 U	0.19 U	0.79 U	0.33 U	0.25 U
2318-452	T1315	B-ST01	Storm 2	04/01/05	4/5/2005	5/3/2005	21.6 U	0.76 U	0.50 U	0.21 U	0.87 U	0.36 U	0.28 U
2318-453 B	T1300	BI-SBC	Make-up Storm	04/11/05	4/13/2005	5/3/2005	18.1 U	0.64 U	0.42 U	0.18 U	0.73 U	0.31 U	0.23 U
2318-504	T1316	BI-SBC	Wet Season Baseflow	03/30/05	4/5/2005	5/3/2005	24.1 U	0.85 U	0.56 U	0.24 U	0.98 U	0.41 U	0.31 U
2318-506	T1318	CC	Wet Season Baseflow	03/30/05	4/5/2005	5/3/2005	32.6 U	1.15 U	0.75 U	0.32 U	1.32 U	0.55 U	0.42 U
2318-508	T1320	CH	Wet Season Baseflow	03/30/05	4/5/2005	5/4/2005	25.1 U	0.88 U	0.58 U	0.25 U	1.02 U	0.42 U	0.32 U
2318-509	T1321	SW6	Wet Season Baseflow	03/30/05	4/5/2005	5/4/2005	14.0 U	0.49 U	0.32 U	0.14 U	0.57 U	0.24 U	0.18 U
2318-510	T1322	B-ST12	Wet Season Baseflow	03/30/05	4/5/2005	5/4/2005	21.6 U	0.76 U	0.50 U	0.21 U	0.87 U	0.36 U	0.28 U
2318-511	T1323	B-ST01	Wet Season Baseflow	03/30/05	4/5/2005	5/4/2005	23.6 U	0.83 U	0.54 U	0.23 U	0.96 U	0.40 U	0.30 U
LABORATOR	RY REPORT	TING LIMIT	(RL)				40	2	2	2	2	2	2

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SINCLAIR AND DYES INLET 2005 STORMWATER

Dyes Inlet and Springbrook Creek Stormwater

					PCB101	PCB077	PCB118	PCB153	PCB105	PCB138	PCB126	PCB187	PCB128
MSL Sample ID	Client ID	Site Description	Event	Collection Date	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)
2318-374	T1305	SW6	Storm 1	03/27/05	3.90	0.55 J	0.13 U	0.10 U	0.10 U	0.10 U	0.21 U	0.21 U	0.17 U
2318-376	T1306	B-ST12	Storm 1	03/27/05	0.09 U	0.11 U	0.11 U	0.08 U	0.08 U	0.09 U	0.18 U	0.18 U	0.14 U
2318-380	T1301	BA	Storm 1	03/27/05	0.10 U	0.12 U	0.12 U	0.09 U	0.09 U	0.10 U	0.20 U	0.19 U	0.15 U
2318-382 R-1	T1302	CC	Storm 1	03/27/05	0.27 J	0.16 U	0.16 U	0.12 U	0.12 U	0.13 U	0.26 U	0.26 U	0.21 U
2318-386	T1304	CH	Storm 1	03/27/05	0.17 U	0.20 U	0.21 U	0.15 U	0.15 U	0.16 U	0.33 U	0.68 J	0.26 U
2318-389	T1307	B-ST01	Storm 1	03/27/05	0.13 U	0.15 U	0.70 J	0.12 U	0.12 U	0.52 J	0.25 U	0.25 U	0.20 U
2318-445	T1313	SW6	Storm 2	04/01/05	0.34 JB	0.18 U	0.19 U	0.14 U	0.14 U	0.15 U	0.30 U	0.29 U	0.23 U
2318-446 R-1	T1314	B-ST12	Storm 2	04/01/05	0.14 U	0.42 J	0.17 U	0.13 U	0.81 J	0.14 U	0.28 U	0.27 U	0.22 U
2318-450	T1311	SC	Storm 2	04/01/05	0.11 U	0.13 U	0.14 U	0.10 U	0.10 U	0.11 U	0.22 U	0.21 U	0.17 U
2318-452	T1315	B-ST01	Storm 2	04/01/05	0.13 U	0.15 U	0.15 U	0.11 U	0.11 U	0.12 U	0.25 U	0.27 J	0.19 U
2318-453 B	T1300	BI-SBC	Make-up Storm	04/11/05	0.11 U	0.12 U	0.13 U	0.09 U	0.09 U	0.10 U	0.21 U	0.20 U	0.16 U
2318-504	T1316	BI-SBC	Wet Season Baseflow	03/30/05	0.14 U	0.16 U	0.17 U	0.13 U	0.13 U	0.13 U	0.27 U	0.27 U	0.21 U
2318-506	T1318	CC	Wet Season Baseflow	03/30/05	0.19 U	0.22 U	0.23 U	0.17 U	0.17 U	0.18 U	0.37 U	0.36 U	0.29 U
2318-508	T1320	CH	Wet Season Baseflow	03/30/05	0.15 U	0.17 U	0.18 U	0.13 U	0.13 U	0.14 U	0.29 J	0.63 J	0.22 U
2318-509	T1321	SW6	Wet Season Baseflow	03/30/05	0.08 U	0.09 U	0.10 U	0.07 U	0.07 U	0.08 U	0.16 U	0.33 J	0.12 U
2318-510	T1322	B-ST12	Wet Season Baseflow	03/30/05	0.13 U	0.15 U	0.15 U	0.11 U	0.11 U	0.12 U	0.25 U	0.99 J	0.19 U
2318-511	T1323	B-ST01	Wet Season Baseflow	03/30/05	0.14 U	0.16 U	0.17 U	0.12 U	0.12 U	0.98 J	0.27 U	0.26 U	0.21 U
LABORATO	RY REPOR	TING LIMIT	(RL)		2	2	2	2	2	2	2	2	2

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SINCLAIR AND DYES INLET 2005 STORMWATER

Dyes Inlet and Springbrook Creek Stormwater

									Surrogate Reco	veries
					PCB200	PCB180	PCB170	PCB195	PCB103	PCB198
MSL Sample		Site		Collection						
ID	Client ID	Description	Event	Date	(ng/L)	(ng/L)	(ng/L)	(ng/L)	% Recovery	% Recovery
2318-374	T1305	SW6	Storm 1	03/27/05	0.23 U	0.18 U	0.20 U	0.64 U	90%	103%
2318-376	T1306	B-ST12	Storm 1	03/27/05	0.20 U	0.16 U	0.17 U	0.55 U	91%	113%
2318-380	T1301	BA	Storm 1	03/27/05	0.21 U	0.17 U	0.19 U	0.59 U	88%	100%
2318-382 R-1	T1302	CC	Storm 1	03/27/05	0.29 U	0.23 U	0.25 U	0.80 U	95%	112%
2318-386	T1304	CH	Storm 1	03/27/05	0.36 U	0.29 U	0.32 U	1.01 U	85%	91%
2318-389	T1307	B-ST01	Storm 1	03/27/05	0.27 U	0.22 U	0.24 U	0.77 U	80%	90%
2318-445	T1313	SW6	Storm 2	04/01/05	0.32 U	0.26 U	0.28 U	0.91 U	91%	104%
2318-446 R-1	T1314	B-ST12	Storm 2	04/01/05	0.30 U	0.24 U	0.26 U	0.85 U	102%	100%
2318-450	T1311	SC	Storm 2	04/01/05	0.24 U	0.19 U	0.21 U	0.67 U	98%	100%
2318-452	T1315	B-ST01	Storm 2	04/01/05	0.33 J	0.21 U	0.23 U	0.74 U	80%	76%
2318-453 B	T1300	BI-SBC	Make-up Storm	04/11/05	0.22 U	0.18 U	0.19 U	0.62 U	77%	79%
2318-504	T1316	BI-SBC	Wet Season Baseflow	03/30/05	0.30 U	0.24 U	0.26 U	0.83 U	92%	94%
2318-506	T1318	CC	Wet Season Baseflow	03/30/05	1.44 J	0.32 U	0.35 U	1.12 U	105%	104%
2318-508	T1320	CH	Wet Season Baseflow	03/30/05	0.31 U	0.25 U	0.27 U	0.86 U	100%	99%
2318-509	T1321	SW6	Wet Season Baseflow	03/30/05	0.17 U	0.14 U	0.15 U	0.48 U	45%	67%
2318-510	T1322	B-ST12	Wet Season Baseflow	03/30/05	0.53 J	0.21 U	0.23 U	0.74 U	38% #	71%
2318-511	T1323	B-ST01	Wet Season Baseflow	03/30/05	0.29 U	0.23 U	0.25 U	0.81 U	53%	99%
LABORATOR	RY REPOR	TING LIMIT	(RL)		2	2	2	2		

QC Sample Results: 2005 Storm Water Organic Contaminants -PAHs

- Gorst
- Sinclair Inlet
- Dyes Inlet, Wet Season Baseflow

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SINCLAIR AND DYES INLET 2005 STORMWATER

QC Summary - Gorst Stormwater

PAH/Phthalate Results for Water Samples Reported in ng/L

PAH Results

							I THE ICOURS				
							naphthalene	2 methyl naphthalene	acenaphthalene	acenaphthene	fluorine
MSL Sample ID	Client ID	Site Description	Event	Collection Date	Extraction Date	Surrogate: Analysis Date	d8 naphthalene	d8 naphthalene	d10 acenaphthene	d10 acenaphthene	d10 acenaphthene
LABORATORY	REPORTING LIMIT (R	RL)					20	20	20	20	20
Blanks Method Blank (2) Method Blank (3) Method Blank (4)	23182 Blank A 23182 Blank B 23182 Blank C	 		 	1/20/2005 1/21/2005 1/26/2005	2/16/2005 2/16/2005 2/16/2005	8.35 U 8.35 U 8.35 U	15.0 U 15.0 U 15.0 U	12.8 U 12.8 U 12.8 U	12.1 U 12.1 U 12.1 U	10.6 U 10.6 U 10.6 U
	Mean Blank 10x Mean Blank										
Blank Spike Resu Blank Blank Spike A	1ts 23182 Blank A 23182 Blank Spike A Spike Concentration	 		 	1/20/2005 1/20/2005	2/16/2005 2/16/2005	8.35 U 964 1250	15.0 U 483 1250	12.8 U 1028 1250	12.1 U 1048 1250	10.6 U 1154 1250
	Percent Recovery A						77%	39% &	82%	84%	92%
Blank Blank Spike B	23182 Blank B 23182 Blank Spike B				1/21/2005 1/21/2005	2/16/2005 2/16/2005	8.35 U 692	15.0 U 347	12.8 U 726	12.1 U 742	10.6 U 788
	Spike Concentration Percent Recovery B						1250 55%	1250 28% &	1250 58%	1250 59%	1250 63%
Blank Blank Spike C Blank Spike D	23182 Blank C 23182 Blank Spike C 23182 Blank Spike D	 		 	1/26/2005 1/26/2005 1/26/2005	2/16/2005 2/16/2005 2/16/2005	8.35 U 451 356	15.0 U 222 168	12.8 U 479 378	12.1 U 480 389	10.6 U 501 465
	Spike Concentration Percent Recovery C Percent Recovery D						625 72% 57%	625 36% & 27% &	625 77% 61%	625 77% 62%	625 80% 74%

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SINCLAIR AND DYES INLET 2005 STORMWATER

QC Summary - Gorst Stormwater

PAH/Phthalate Results for Water Samples Reported in ng/L

PAH Results

							naphthalene	2 methyl naphthalene	acenaphthalene	acenaphthene	fluorine
		614-		Callandan	E-4	Surrogate:					
MSL Sample ID	Client ID	Site Description	Event	Collection Date	Extraction Date	Analysis Date	d8 naphthalene	d8 naphthalene	d10 acenaphthene	d10 acenaphthene	d10 acenaphthene
Matrix Spike Res	sults										_
2318-63	T1103	AC	Storm 1	01/17/05	1/20/2005	2/16/2005	10.3 J	9.68 U	8.24 U	7.78 U	6.87 U
2318-63 Spk A	Spike A	AC		01/17/05	1/20/2005	2/16/2005	1121	543	1159	1167	1206
2318-63 Spk B	Spike B	AC		01/17/05	1/20/2005	2/16/2005	1120	560	1172	1209	1258
	Spike Concentration						1250	1250	1250	1250	1250
	Percent Recovery MS						89%	43%	93%	93%	96%
	Percent Recovery MSD						89%	45%	94%	97%	101%
	RPD						0%	3%	1%	3%	4%
Laboratory Dupl	licate Results										
2318-64 R-1	T1104	LMK122	Storm 1	01/17/05	1/21/2005	2/16/2005	74.8	50.4	7.30 U	6.89 U	15.8 J
2318-64 R-2	T1104	LMK122	Storm 1	01/17/05	1/21/2005	2/16/2005	75.1	49.3	7.30 U	6.89 U	14.7 J
	RPD						0%	2%	NA	NA	7%

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SINCLAIR AND DYES INLET 2005 STORMWATER

QC Summary - Gorst Stormwater

				phenanthrene	anthracene	fluoranthene	pyrene	benz[a]anthracene	chrysene
MSL Sample ID	Client ID	Site Description	Collection Event Date	d10 phenanthrene	d10 phenanthrene	d12 chrysene	d12 chrysene	d12 chrysene	d12 chrysene
LABORATORY 1	REPORTING LIMIT (R	L)		20	20	20	20	20	20
Blanks									
Method Blank (2)	23182 Blank A			16.4 U	11.6 U	17.9 U	18.7 U	16.0 U	17.6 U
Method Blank (3)	23182 Blank B			16.4 U	11.6 U	17.9 U	18.7 U	16.0 U	17.6 U
Method Blank (4)	23182 Blank C			16.4 U	11.6 U	17.9 U	18.7 U	16.0 U	17.6 U
	Mean Blank								
	10x Mean Blank								
Blank Spike Resu	<u>lts</u>								
Blank	23182 Blank A			16.4 U	11.6 U	17.9 U	18.7 U	16.0 U	17.6 U
Blank Spike A	23182 Blank Spike A			1279	1257	1338	1441	1465	1321
	Spike Concentration			1250	1250	1250	1250	1250	1250
	Percent Recovery A			102%	101%	107%	115%	117%	106%
Blank	23182 Blank B			16.4 U	11.6 U	17.9 U	18.7 U	16.0 U	17.6 U
Blank Spike B	23182 Blank Spike B			832	869	985	937	1015	927
	Spike Concentration			1250	1250	1250	1250	1250	1250
	Percent Recovery B			67%	69%	79%	75%	81%	74%
Blank	23182 Blank C			16.4 U	11.6 U	17.9 U	18.7 U	16.0 U	17.6 U
Blank Spike C	23182 Blank Spike C			520	535	613	587	605	562
Blank Spike D	23182 Blank Spike D			522	537	611	583	633	567
	Spike Concentration			625	625	625	625	625	625
	Percent Recovery C			83%	86%	98%	94%	97%	90%
	Percent Recovery D			83%	86%	98%	93%	101%	91%

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SINCLAIR AND DYES INLET 2005 STORMWATER

QC Summary - Gorst Stormwater

					phenanthrene	anthracene	fluoranthene	pyrene	benz[a]anthracene	chrysene
MSL Sample ID	Client ID	Site Description	Event	Collection Date	d10 phenanthrene	d10 phenanthrene	d12 chrysene	d12 chrysene	d12 chrysene	d12 chrysene
Matrix Spike Res	sults									
2318-63 2318-63 Spk A 2318-63 Spk B	T1103 Spike A Spike B	AC AC AC	Storm 1	01/17/05 01/17/05 01/17/05	10.6 U 1215 1276	7.46 U 1302 1355	11.5 U 1427 1487	12.0 U 1324 1385	10.3 U 1428 1514	11.4 U 1272 1337
	Spike Concentration Percent Recovery MS Percent Recovery MSD RPD				1250 97% 102% 5%	1250 104% 108% 4%	1250 114% 119% 4%	1250 106% 111% 5%	1250 114% 121% & 6%	1250 102% 107% 5%
<u>Laboratory Dupl</u> 2318-64 R-1 2318-64 R-2	ticate Results T1104 T1104 RPD	LMK122 LMK122	Storm 1 Storm 1	01/17/05 01/17/05	56.9 25.2 77% &	19.7 J 6.60 U NA	45.8 41.0 11%	10.6 U 49.6 NA	18.7 J 18.0 J 4%	47.3 21.2 76% &

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SINCLAIR AND DYES INLET 2005 STORMWATER

QC Summary - Gorst Stormwater

				benzo[b]fluoranthene	benzo[k]fluoranthene	benzo[a]pyrene	indeno[1,2,3-c,d]pyrene	dibenz[a,h]anthracene
MSL Sample ID	Client ID	Site Description	Collection Event Date	d12 perylene	d12 perylene	d12 perylene	d12 perylene	d12 perylene
LABORATORY	REPORTING LIMIT (R	L)		20	20	20	20	20
Blanks								
Method Blank (2) Method Blank (3)	23182 Blank B			15.3 U 15.3 U	14.5 U 14.5 U	17.2 U 17.2 U	14.3 U 14.3 U	51.8 13.4 U
Method Blank (4)	23182 Blank C			15.3 U	14.5 U	17.2 U	14.3 U	13.4 U
	Mean Blank 10x Mean Blank							<i>17</i> J
Blank Spike Resu	<u>lts</u>							
Blank Blank Spike A	23182 Blank A 23182 Blank Spike A		 	15.3 U 1352	14.5 U 1316	17.2 U 1282	14.3 U 1409	51.8 1290
	Spike Concentration Percent Recovery A			1250 108%	1250 105%	1250 103%	1250 113%	1250 99%
Blank Blank Spike B	23182 Blank B 23182 Blank Spike B		 	15.3 U 965	14.5 U 974	17.2 U 939	14.3 U 1020	13.4 U 922
	Spike Concentration Percent Recovery B			1250 77%	1250 78%	1250 75%	1250 82%	1250 74%
Blank Blank Spike C Blank Spike D	23182 Blank C 23182 Blank Spike C 23182 Blank Spike D	 	 	15.3 U 563 585	14.5 U 573 564	17.2 U 557 530	14.3 U 639 624	13.4 U 542 543
	Spike Concentration Percent Recovery C Percent Recovery D			625 90% 94%	625 92% 90%	625 89% 85%	625 102% 100%	625 87% 87%

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SINCLAIR AND DYES INLET 2005 STORMWATER

QC Summary - Gorst Stormwater

					benzo[b]fluoranthene	benzo[k]fluoranthene	benzo[a]pyrene	indeno[1,2,3-c,d]pyrene	dibenz[a,h]anthracene
		Site		Collection					
MSL Sample ID	Client ID	Description	Event	Date	d12 perylene	d12 perylene	d12 perylene	d12 perylene	d12 perylene
Matrix Spike Res	sults								_
2318-63	T1103	AC	Storm 1	01/17/05	9.86 U	9.36 U	11.1 U	9.21 U	20.9
2318-63 Spk A	Spike A	AC		01/17/05	1381	1351	1305	1401	1312
2318-63 Spk B	Spike B	AC		01/17/05	1404	1384	1358	1490	1339
	Spike Concentration				1250	1250	1250	1250	1250
	Percent Recovery MS				110%	108%	104%	112%	103%
	Percent Recovery MSD				112%	111%	109%	119%	105%
	RPD				2%	2%	4%	6%	2%
Laboratory Dupl	icate Results								
2318-64 R-1	T1104	LMK122	Storm 1	01/17/05	21.5	8.29 U	13.9 J	12.0 Ј	7.67 U
2318-64 R-2	T1104	LMK122	Storm 1	01/17/05	19.9 J	8.29 U	12.2 J	10.7 J	7.67 U
	RPD				8%	NA	13%	12%	NA

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SINCLAIR AND DYES INLET 2005 STORMWATER

QC Summary - Gorst Stormwater

PAH/Phthalate Results for Water Samples Reported in ng/L

Phthalate Results

					benzo[g,h,i]perylene	di-N-butyl phthalate	butylbenzyl phthalate	bis(2- ethylhexyl) phthalate
MSL Sample ID	Client ID	Site Description	Event	Collection Date	d12 perylene	d10 phenanthrene	d12 chrysene	d12 perylene
LABORATORY	REPORTING LIMIT (R	L)			20	40	40	40
Blanks								
Method Blank (2)	23182 Blank A				14.4 U	806 E	443 E	1400 E
Method Blank (3)	23182 Blank B				14.4 U	173 E	175 E	5321 E
Method Blank (4)	23182 Blank C				14.4 U	196 E	192 E	917 E
	Mean Blank					392	270	2546
	10x Mean Blank					3919	2702	25460
Blank Spike Resu	<u>lts</u>							
Blank	23182 Blank A				14.4 U	806 E	443 E	1400 E
Blank Spike A	23182 Blank Spike A				1352	4568 E	4770 E	5729 EB
	Spike Concentration				1250	2500	2500	2500
	Percent Recovery A				108%	150% &	173% &	173% &
Blank	23182 Blank B				14.4 U	173 E	175 E	5321 E
Blank Spike B	23182 Blank Spike B				995	2430 EB	3028 E	5313 EB
	Spike Concentration				1250	2500	2500	2500
	Percent Recovery B				80%	90%	114%	NC
Blank	23182 Blank C				14.4 U	196 E	192 E	917 E
Blank Spike C	23182 Blank Spike C				591	1732 EB	2294 EB	3347 EB
Blank Spike D	23182 Blank Spike D				589	1566 EB	2105 EB	2079 EB
	Spike Concentration				625	1250	1250	1250
	Percent Recovery C				95%	123% &	168% &	194% &
	Percent Recovery D				94%	110%	153% &	93%

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SINCLAIR AND DYES INLET 2005 STORMWATER

QC Summary - Gorst Stormwater

PAH/Phthalate Results for Water Samples Reported in ng/L

Phthalate Results

					benzo[g,h,i]perylene	di-N-butyl phthalate	butylbenzyl phthalate	bis(2- ethylhexyl) phthalate
MSL Sample ID	Client ID	Site Description	Event	Collection Date	d12 perylene	d10 phenanthrene	d12 chrysene	d12 perylene
Matrix Spike Re	sults							
2318-63	T1103	AC	Storm 1	01/17/05	9.26 U	1375 BE	738 BE	1509 BE
2318-63 Spk A	Spike A	AC		01/17/05	1338	8601 E	5247 E	6933 BE
2318-63 Spk B	Spike B	AC		01/17/05	1431	8349 E	5451 E	6357 BE
	Spike Concentration Percent Recovery MS				1250 107%	2500 289% &	2500 180% &	2500 217% &
	Percent Recovery MSD				115%	279% &	188% &	194% &
	RPD				7%	4%	4%	11%
Laboratory Dup	licate Results							
2318-64 R-1	T1104	LMK122	Storm 1	01/17/05	16.8 J	372 BE	240 BE	2862 BE
2318-64 R-2	T1104	LMK122	Storm 1	01/17/05	14.4 J	419 BE	253 BE	2624 BE
	RPD				15%	12%	5%	9%

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SINCLAIR AND DYES INLET 2005 STORMWATER

QC Summary - Gorst Stormwater

Surrogate Recoverie	ŝ
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				d8 naphthalene	d10 acenaphthene	d10 phenanthrene	d12 chrysene	d12 perylene
				(%)	(%)	(%)	(%)	(%)
MSL Sample ID	Client ID	Site Description	Collection Event Date					
LABORATORY	REPORTING LIMIT (R	L)						
Blanks								
Method Blank (2)	23182 Blank A			88%	97%	111%	105%	104%
Method Blank (3)	23182 Blank B			75%	83%	89%	85%	87%
Method Blank (4)	23182 Blank C			81%	86%	92%	86%	86%
	Mean Blank							
	10x Mean Blank							
Blank Spike Resu	lts							
Blank	23182 Blank A			88%	97%	111%	105%	104%
Blank Spike A	23182 Blank Spike A			95%	100%	112%	108%	103%
	Spike Concentration							
	Percent Recovery A							
Blank	23182 Blank B			75%	83%	89%	85%	87%
Blank Spike B	23182 Blank Spike B			66%	70%	79%	81%	82%
	Spike Concentration							
	Percent Recovery B							
Blank	23182 Blank C			81%	86%	92%	86%	86%
Blank Spike C	23182 Blank Spike C			69%	73%	81%	84%	86%
Blank Spike D	23182 Blank Spike D			66%	72%	84%	89%	87%
	Spike Concentration							
	Percent Recovery C							
	Percent Recovery D							

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SINCLAIR AND DYES INLET 2005 STORMWATER

QC Summary - Gorst Stormwater

PAH/Phthalate Results for Water Samples Reported in ng/L

Surrogate Recoveries

					d8 naphthalene	d10 acenaphthene	d10 phenanthrene	d12 chrysene	d12 perylene
					(%)	(%)	(%)	(%)	(%)
		Site		Collection					
MSL Sample ID	Client ID	Description	Event	Date					
Matrix Spike Res	sults								
2318-63	T1103	AC	Storm 1	01/17/05	75%	82%	89%	82%	82%
2318-63 Spk A	Spike A	AC		01/17/05	100%	104%	110%	110%	112%
2318-63 Spk B	Spike B	AC		01/17/05	92%	97%	106%	101%	102%
	Spike Concentration Percent Recovery MS								
	Percent Recovery MSD RPD								
Laboratory Dupl	licate Results								
2318-64 R-1	T1104	LMK122	Storm 1	01/17/05	63%	75%	83%	79%	82%
2318-64 R-2	T1104	LMK122	Storm 1	01/17/05	66%	72%	80%	77%	77%
	RPD								

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SINCLAIR AND DYES INLET 2005 STORMWATER

QC Summary - Sinclair Inlet Stormwater

PAH/Phthalate Results for Water Samples Reported in ng/L

PAH Results

							1 ATT Results				
							naphthalene	2 methyl naphthalene	acenaphthalene	acenaphthene	fluorine
MSL Sample ID	Client ID	Site Description	Event	Collection Date	Extraction Date	Surrogate: Analysis Date	d8 naphthalene	d8 naphthalene	d10 acenaphthene	d10 acenaphthene	d10 acenaphthene
LABORATORY I	REPORTING LIMIT (RL)					20	20	20	20	20
Blanks Method Blank (1) Method Blank (2)	23183 Blank A 23183 Blank B	 	Storm 1 Storm 1	 	03/04/05 03/04/05	3/18/2005 3/18/2005	8.35 U 8.35 U	10.0 U 10.0 U	12.8 U 12.8 U	12.1 U 12.1 U	10.6 U 10.6 U
(=)	Mean Blank 10x Mean Blank										
Method Blank (3) Method Blank (4)	23184 blk 1 23184 blk 2		Storm 2 Storm 2		03/23/05 03/23/05	4/30/2005 4/30/2005	8.35 U 8.35 U	10.0 U 10.0 U	12.8 U 12.8 U	12.1 U 12.1 U	10.6 U 10.6 U
	Mean Blank 10x Mean Blank										
Blank Spike Resul Blank Blank Spike A Blank Spike B	23183 Blank B 23183 Blank Spike A 23183 Blank Spike B	 	Storm 1 Storm 1 Storm 1	 	03/04/05 03/04/05 03/04/05	3/18/2005 3/18/2005 3/18/2005	8.35 U 359 355	10.0 U 244 173	12.8 U 509 373	12.1 U 526 388	10.6 U 548 415
	Spike Concentration Percent Recovery A Percent Recovery B						625 57% 57%	625 39% & 28% &	625 81% 60%	625 84% 62%	625 88% 66%
Blank Blank Spike A Blank Spike B	23184 Blank 23184 Blank Spike A 23184 Blank Spike B	 	Storm 2 Storm 2 Storm 2	 	03/23/05 03/23/05 03/23/05	4/30/2005 4/30/2005 4/30/2005	8.35 U 443 446	10.0 U 213 218	12.8 U 508 465	12.1 U 524 489	10.6 U 580 534
	Spike Concentration Percent Recovery A Percent Recovery B						625 71% 71%	625 34% & 35% &	625 81% 74%	625 84% 78%	625 93% 85%
Matrix Spike Resu 2318-234 2318-234 Spk A 2318-234 Spk B	Ilts T1202 Spike A Spike B	B-ST28 	Storm 1	03/01/05	03/04/05 03/04/05 03/04/05	3/18/2005 3/18/2005 3/18/2005	25.7 378 443	68.3 239 280	14.1 380 457	10.5 U 400 468	30.0 415 523
	Spike Concentration Percent Recovery MS Percent Recovery MSD RPD						544 65% 77% 17%	544 31% & 39% & 21%	544 67% 81% 19%	544 74% 86% 16%	544 71% 91% 24%

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SINCLAIR AND DYES INLET 2005 STORMWATER

QC Summary - Sinclair Inlet Stormwater

PAH/Phthalate Results for Water Samples Reported in ng/L

PAH Results

							naphthalene	2 methyl naphthalene	acenaphthalene	acenaphthene	fluorine
MSL Sample ID	Client ID	Site Description	Event	Collection Date	Extraction Date	Surrogate: Analysis Date	d8 naphthalene	d8 naphthalene	d10 acenaphthene	d10 acenaphthene	d10 acenaphthene
		2 eser prior	2,010	2	2		ио парттатепе	ав партпалене	а10 асепаринене	асепартнепе	асепарттепе
Matrix Spike Rest 2318-312 2318-312 Spk A 2318-312 Spk B	ults, cont. T1212 Spike A Spike B	PSNS124 	Storm 2 	03/20/05	03/23/05 03/23/05 03/23/05	4/30/2005 4/30/2005 4/30/2005	32.4 583 549	11.1 U 300 263	14.2 U 587 553	13.4 U 605 578	11.8 U 608 624
	Spike Concentration Percent Recovery MS Percent Recovery MSD RPD						694 79% 74% 6%	694 43% 38% & 13%	694 85% 80% 6%	694 87% 83% 5%	694 88% 90% 3%
Laboratory Dupli	cate Results										
2318-235 R-1 2318-235 R-2	T1203 T1203 RPD	B-ST/CSO16 B-ST/CSO16	Storm 1 Storm 1	03/01/05 03/01/05	03/04/05 03/04/05	3/18/2005 3/18/2005	18.0 17.6 2%	7.12 7.47 5%	8.08 7.94 U NA	8.85 7.49 U NA	15.7 11.1 34% &
2318-310 R-1 2318-310 R-2	T1210 T1210 RPD	B-ST/CSO16 B-ST/CSO16	Storm 2 Storm 2	03/20/05 03/20/05	03/23/05 03/23/05	4/30/2005 4/30/2005	53.5 45.8 16%	35.8 29.9 18%	14.9 12.3 19%	18.3 11.4 47% &	32.2 22.3 36% &

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QC Summary - Sinclair Inlet Stormwater PAH/Phthalate Results for Water Samples Reported in ng/L

-					phenanthrene	anthracene	fluoranthene	pyrene	benz[a]anthracene	chrysene
		Site		Collection		d10		d12		d12
MSL Sample ID	Client ID	Description	Event	Date	d10 phenanthrene	a10 phenanthrene	d12 chrysene	a12 chrysene	d12 chrysene	a12 chrysene
LABORATORY I	REPORTING LIMIT (RL)			20	20	20	20	20	20
Blanks										
Method Blank (1) Method Blank (2)	23183 Blank A 23183 Blank B		Storm 1 Storm 1		16.4 U 16.4 U	11.6 U 11.6 U	17.9 U 17.9 U	22.3 18.7 U	16.0 U 16.0 U	17.6 U 17.6 U
	Mean Blank 10x Mean Blank							11.2 J		
Method Blank (3)	23184 blk 1		Storm 2		16.4 U	11.6 U	17.9 U	18.7 U	16.0 U	17.6 U
Method Blank (4)	23184 blk 2		Storm 2		16.4 U	11.6 U	17.9 U	18.7 U	16.0 U	17.6 U
	Mean Blank 10x Mean Blank									
Blank Spike Resul										
Blank Blank Spike A	23183 Blank B 23183 Blank Spike A		Storm 1 Storm 1		16.4 U 612	11.6 U 600	17.9 U 715	18.7 U 681	16.0 U 565	17.6 U 495
Blank Spike B	23183 Blank Spike B		Storm 1		437	452	485	479	519	467
	Spike Concentration				625	625	625	625	625	625
	Percent Recovery A Percent Recovery B				98% 70%	96% 72%	114% 78%	109% 77%	90% 83%	79% 75%
Blank	23184 Blank		Storm 2		16.4 U	11.6 U	17.9 U	18.7 U	16.0 U	17.6 U
Blank Spike A	23184 Blank Spike A		Storm 2		630	617	667	684	757	653
Blank Spike B	23184 Blank Spike B		Storm 2		569	564	612	601	483	427
	Spike Concentration				625	625	625	625	625 121% &	625
	Percent Recovery A Percent Recovery B				101% 91%	99% 90%	107% 98%	109% 96%	77%	105% 68%
Matrix Spike Resu	<u>ults</u>									
2318-234	T1202	B-ST28	Storm 1	03/01/05	144	15.9	240	284	50.7	138
2318-234 Spk A 2318-234 Spk B	Spike A Spike B				525 647	413 547	702 875	720 879	410 608	419 610
2310-23+ Spk B	•	==								
	Spike Concentration Percent Recovery MS				544 70%	544 73%	544 85%	544 80%	544 66%	544 52%
	Percent Recovery MSD				92%	98%	117%	109%	102%	87%
	RPD				28%	29%	32% &	31% &	43% &	51% &

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QC Summary - Sinclair Inlet Stormwater PAH/Phthalate Results for Water Samples Reported in ng/L

					phenanthrene	anthracene	fluoranthene	pyrene	benz[a]anthracene	chrysene
										·
		Site	_	Collection		d10		d12		d12
MSL Sample ID	Client ID	Description	Event	Date	d10 phenanthrene	phenanthrene	d12 chrysene	chrysene	d12 chrysene	chrysene
Matrix Spike Res	ults, cont.									
2318-312	T1212	PSNS124	Storm 2	03/20/05	72.0	12.8 U	79.0	99.3	18.4	32.7
2318-312 Spk A	Spike A				640	617	718	695	733	636
2318-312 Spk B	Spike B				678	679	766	718	755	656
	Spike Concentration				694	694	694	694	694	694
	Percent Recovery MS				82%	87%	92%	86%	103%	87%
	Percent Recovery MSD				87%	96%	99%	89%	106%	90%
	RPD				7%	10%	7%	4%	3%	3%
Laboratory Dupli	icate Results									
2318-235 R-1	T1203	B-ST/CSO16	Storm 1	03/01/05	144	13.5	381	312	78.1	169
2318-235 R-2	T1203	B-ST/CSO16	Storm 1	03/01/05	99.9	9.37	274	224	56.3	127
	RPD				36% &	36% &	33% &	33% &	33% &	29%
2318-310 R-1	T1210	B-ST/CSO16	Storm 2	03/20/05	384	44.4	735	576	200	303
2318-310 R-2	T1210	B-ST/CSO16	Storm 2	03/20/05	238	34.0	407	349	101	303 194
2310-310 K-2	RPD	D-31/C3U10	Stoffii 2	03/20/03	47% &	27%	58% &	49% &	66% &	44% &

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QC Summary - Sinclair Inlet Stormwater PAH/Phthalate Results for Water Samples Reported in ng/L

					benzo[b]fluoranthene	benzo[k]fluoranthene	benzo[a]pyrene	indeno[1,2,3-c,d]pyrene
MSL Sample ID	Client ID	Site Description	Event	Collection Date	d12 perylene	d12 perylene	d12 perylene	d12 perylene
LABORATORY I	REPORTING LIMIT (RL)			20	20	20	20
Blanks Method Blank (1) Method Blank (2)	23183 Blank A 23183 Blank B	 	Storm 1 Storm 1	 	15.3 U 15.3 U	14.5 U 14.5 U	143 17.2 U	14.3 U 14.3 U
	Mean Blank 10x Mean Blank						71.4 714	
Method Blank (3) Method Blank (4)	23184 blk 1 23184 blk 2	 	Storm 2 Storm 2		15.3 U 15.3 U	14.5 U 14.5 U	17.2 U 17.2 U	14.3 U 14.3 U
	Mean Blank 10x Mean Blank							
Blank Spike Resul Blank Blank Spike A Blank Spike B	23183 Blank B 23183 Blank Spike A 23183 Blank Spike B	 	Storm 1 Storm 1 Storm 1	 	15.3 U 467 425	14.5 U 446 422	17.2 U 598 399	14.3 U 677 459
	Spike Concentration Percent Recovery A Percent Recovery B				625 75% 68%	625 71% 68%	625 96% 64%	625 108% 73%
Blank Blank Spike A Blank Spike B	23184 Blank 23184 Blank Spike A 23184 Blank Spike B	 	Storm 2 Storm 2 Storm 2	 	15.3 U 713 609	14.5 U 699 581	17.2 U 655 575	14.3 U 735 614
	Spike Concentration Percent Recovery A Percent Recovery B				625 114% 97%	625 112% 93%	625 105% 92%	625 118% 98%
Matrix Spike Resu 2318-234	<u>ılts</u> T1202	B-ST28	Storm 1	03/01/05	119	36.7	44.6 B	67.5
2318-234 Spk A 2318-234 Spk B	Spike A Spike B	 	 		417 662	314 549	413 589	363 649
	Spike Concentration Percent Recovery MS Percent Recovery MSD RPD				544 55% 100% 58% &	544 51% 94% 59% &	544 68% 100% 39% &	544 54% 107% 65% &

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QC Summary - Sinclair Inlet Stormwater

					benzo[b]fluoranthene	benzo[k]fluoranthene	benzo[a]pyrene	indeno[1,2,3-c,d]pyrene
		Site		Collection				
MSL Sample ID	Client ID	Description	Event	Date	d12 perylene	d12 perylene	d12 perylene	d12 perylene
Matrix Spike Resi	alts, cont.							
2318-312	T1212	PSNS124	Storm 2	03/20/05	24.7	16.1	90.0	15.9 U
2318-312 Spk A	Spike A				690	647	634	667
2318-312 Spk B	Spike B				718	672	663	704
	Spike Concentration				694	694	694	694
	Percent Recovery MS				96%	91%	78%	96%
	Percent Recovery MSD				100%	94%	83%	101%
	RPD				4%	4%	5%	5%
Laboratory Dupli	cate Results							
2318-235 R-1	T1203	B-ST/CSO16	Storm 1	03/01/05	169	55.4	85.8 B	101
2318-235 R-2	T1203	B-ST/CSO16	Storm 1	03/01/05	118	38.6	62.2 B	73.8
	RPD				35% &	36% &	32% &	31% &
2318-310 R-1	T1210	B-ST/CSO16	Storm 2	03/20/05	370	125	216 B	221
2318-310 R-2	T1210	B-ST/CSO16	Storm 2	03/20/05	230	74.8	121 B	133
	RPD				46% &	50% &	57% &	49% &

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SINCLAIR AND DYES INLET 2005 STORMWATER

QC Summary - Sinclair Inlet Stormwater

					dibenz[a,h]anthracene	benzo[g,h,i]perylene	di-N-butyl phthalate	butylbenzyl phthalate	bis (2-ethylhexyl) phthalate
MSL Sample ID	Client ID	Site Description	Event	Collection Date	d12 perylene	d12 perylene	d10 phenanthrene	d12 chrysene	d12 perylene
LABORATORY I	REPORTING LIMIT (RL)			20	20	40	40	40
<u>Blanks</u>									
Method Blank (1) Method Blank (2)	23183 Blank A 23183 Blank B		Storm 1 Storm 1		13.4 U 13.4 U	14.4 U 14.4 U	999 E 421 E	510 E 183 E	858 E 246 E
	Mean Blank 10x Mean Blank						710 7101	346 3464	552 5516
Method Blank (3) Method Blank (4)	23184 blk 1 23184 blk 2		Storm 2 Storm 2		13.4 U 13.4 U	14.4 U 14.4 U	1364 E 2440 E	161 E 141 E	4304 E 345 E
	Mean Blank 10x Mean Blank						1902 19018	151 1514	2325 23248
Blank Spike Resul									
Blank Blank Spike A Blank Spike B	23183 Blank B 23183 Blank Spike A 23183 Blank Spike B	 	Storm 1 Storm 1 Storm 1	 	13.4 U 1170 402	14.4 U 654 434	421 E 2634 BE 1456 BE	183 E 2307 BE 2028 BE	246 E 7865 E 5008 BE
	Spike Concentration Percent Recovery A Percent Recovery B				625 187% 64%	625 105% 69%	1250 177% & 83%	1250 170% & 148% &	1250 610% & 381% &
Blank	23184 Blank		Storm 2		13.4 U	14.4 U	1364 E	161 E	4304 E
Blank Spike A Blank Spike B	23184 Blank Spike A 23184 Blank Spike B		Storm 2 Storm 2		677 589	751 611	2003 BE 4235 BE	1954 E 1715 E	3950 BE 2239 BE
	Spike Concentration Percent Recovery A Percent Recovery B				625 108% 94%	625 120% 98%	1250 51% 230% &	1250 143% & 124% &	1250 28% & 165% &
Matrix Spike Resu	<u>ılts</u>								
2318-234 2318-234 Spk A	T1202 Spike A	B-ST28	Storm 1	03/01/05	429 308	136 440	1037 BE 375 BE	2103 BE 578 BE	5785 E 4520 BE
2318-234 Spk B	Spike B				713	676	2371 BE	3464 E	5285 BE
	Spike Concentration Percent Recovery MS Percent Recovery MSD RPD				544 22% & 52% 80% &	544 56% 99% 56% &	1088 61% 123% & 67% &	1088 140% & 125% & 11%	1088 116% 46% 87% &

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QC Summary - Sinclair Inlet Stormwater PAH/Phthalate Results for Water Samples Reported in ng/L

					dibenz[a,h]anthracene	benzo[g,h,i]perylene	di-N-butyl phthalate	butylbenzyl phthalate	bis (2-ethylhexyl) phthalate
MSL Sample ID	Client ID	Site Description	Event	Collection Date	d12 perylene	d12 perylene	d10 phenanthrene	d12 chrysene	d12 perylene
Matrix Spike Res	ults, cont.								_
2318-312	T1212	PSNS124	Storm 2	03/20/05	14.9 U	15.9 U	2241 BE	1932 E	5787 BE
2318-312 Spk A	Spike A				593	656	4344 BE	3582 E	7383 BE
2318-312 Spk B	Spike B				630	697	5125 BE	3734 E	8014 BE
	Spike Concentration				694	694	1389	1389	1389
	Percent Recovery MS				85%	95%	151% &	119%	115%
	Percent Recovery MSD				91%	100%	208% &	130% &	160% &
	RPD				6%	6%	31% &	9%	33% &
Laboratory Dupli	cate Results								
2318-235 R-1	T1203	B-ST/CSO16	Storm 1	03/01/05	24.5	129	432 BE	1022 BE	5805 E
2318-235 R-2	T1203	B-ST/CSO16	Storm 1	03/01/05	18.8	92.7	559 BE	723 BE	6176 E
	RPD				26%	33% &	26%	34% &	6%
2318-310 R-1	T1210	B-ST/CSO16	Storm 2	03/20/05	42.3	231	3307 BE	1167 BE	12041 BE
2318-310 R-2	T1210	B-ST/CSO16	Storm 2	03/20/05	32.3	146	2773 BE	771 BE	7664 BE
	RPD				27%	45% &	18%	41% &	44% &

SINCLAIR AND DYES INLET 2005 STORMWATER QC Summary - Sinclair Inlet Stormwater

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PAH/Phthalate Results for Water Samples Reported in ng/L

Surrogate Recoveries

					d8 naphthalene	d10 acenaphthene	d10 phenanthrene	d12 chrysene	d12 perylene
					(%)	(%)	(%)	(%)	(%)
MSL Sample ID	Client ID	Site Description	Event	Collection Date					
LABORATORY I	REPORTING LIMIT (RL))							
<u>Blanks</u>									
Method Blank (1) Method Blank (2)	23183 Blank A 23183 Blank B		Storm 1 Storm 1		60% 48%	63% 67%	98% 76%	51% 76%	66% 80%
	Mean Blank 10x Mean Blank								
Method Blank (3)	23184 blk 1		Storm 2		75%	76%	95%	87%	90%
Method Blank (4)	23184 blk 2		Storm 2		74%	75%	95%	103%	101%
	Mean Blank 10x Mean Blank								
Blank Spike Resul									
Blank	23183 Blank B		Storm 1		48%	67%	76%	76%	80%
Blank Spike A Blank Spike B	23183 Blank Spike A 23183 Blank Spike B		Storm 1 Storm 1		57% 64%	80% 67%	90% 77%	67% 77%	91% 71%
	Spike Concentration Percent Recovery A Percent Recovery B					2.72			
Blank	23184 Blank		Storm 2		75%	76%	95%	87%	90%
Blank Spike A	23184 Blank Spike A		Storm 2		85%	86%	110%	117%	111%
Blank Spike B	23184 Blank Spike B		Storm 2		79%	85%	99%	74%	101%
	Spike Concentration Percent Recovery A Percent Recovery B								
Matrix Spike Resu	ılt <u>s</u>								
2318-234	T1202	B-ST28	Storm 1	03/01/05	50%	76%	82%	68%	81%
2318-234 Spk A	Spike A				59%	63%	79%	48%	55%
2318-234 Spk B	Spike B Spike Concentration Percent Recovery MS Percent Recovery MSD RPD		-	-	67%	72%	81%	72%	81%

SINCLAIR AND DYES INLET 2005 STORMWATER

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QC Summary - Sinclair Inlet Stormwater PAH/Phthalate Results for Water Samples Reported in ng/L

Surrogate Recoveries

					10 14 1	d10	d10	d12	d12
					d8 naphthalene	acenaphthene	phenanthrene	chrysene	perylene
					(%)	(%)	(%)	(%)	(%)
		Site		Collection					
MSL Sample ID	Client ID	Description	Event	Date					
Matrix Spike Res	ults, cont.								
2318-312	T1212	PSNS124	Storm 2	03/20/05	73%	75%	99%	95%	88%
2318-312 Spk A	Spike A				77%	81%	94%	95%	99%
2318-312 Spk B	Spike B				87%	88%	106%	103%	107%
	Spike Concentra Percent Recovery Percent Recovery M	MS							
Laboratory Dupli	cate Results								
2318-235 R-1	T1203	B-ST/CSO16	Storm 1	03/01/05	49%	72%	77%	65%	73%
2318-235 R-2	T1203	B-ST/CSO16	Storm 1	03/01/05	53%	60%	62%	52%	59%
	I	RPD							
2318-310 R-1	T1210	B-ST/CSO16	Storm 2	03/20/05	78%	88%	103%	96%	105%
2318-310 R-2	T1210	B-ST/CSO16 RPD	Storm 2	03/20/05	70%	77%	89%	81%	92%

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SINCLAIR AND DYES INLET 2005 STORMWATER

QC Summary - Dyes Inlet and Springbrook Creek Stormwater

PAH/Phthalate Results for Water Samples Reported in ng/L

PAH Results

							TITE TROUBLES				
							naphthalene	2 methyl naphthalene	acenaphthalene	acenaphthene	fluorine
MSL Sample ID	Client ID	Site Description	Event	Collection Date	Extraction Date	Surrogate: Analysis Date	d8 naphthalene	d8 naphthalene	d10 acenaphthene	d10 acenaphthene	d10 acenaphthene
LABORATORY	REPORTING LIMI	T (RL)					20	20	20	20	20
Blanks Method Blank (1)	23185 blk 10x blank		Storm 1		3/29/2005	4/30/2005	8.35 U	10.0 U	12.8 U	12.1 U	10.6 U
Method Blank (2)	23186 blk 10x blank		Storm 2/wet season		4/5/2005	4/30/2005	8.35 U	10.0 U	12.8 U	12.1 U	10.6 U
Method Blank (3)	23187 blk 10x blank		Make-up Storm		4/13/2005	4/30/2005	11.2 J	10.0 U	12.8 U	12.1 U	10.6 U
Blank Spike Resu Blank Blank Spike A Blank Spike B	23185 blk 23185 blk spk A 23185 blk spk B Spike Concentration Percent Recovery Percent Recovery I	Λ	Storm 1 Storm 1 Storm 1	 	3/29/2005 3/29/2005 3/29/2005	4/30/2005 4/30/2005 4/30/2005	8.35 U 456 510 625 73% 82%	10.0 U 229 258 625 37% & 41%	12.8 U 483 556 625 77% 89%	12.1 U 507 590 625 81% 94%	10.6 U 559 616 625 89% 98%
Blank Blank Spike A Blank Spike B	23186 blk 23186 blk spk A 23186 blk spk B Spike Concentration Percent Recovery Percent Recovery I	Λ	Storm 2/wet season Storm 2/wet season Storm 2/wet season	 	4/5/2005 4/5/2005 4/5/2005	4/30/2005 4/30/2005 4/30/2005	8.35 U 553 530 625 88% 85%	10.0 U 276 262 625 44% 42%	12.8 U 571 523 625 91% 84%	12.1 U 615 562 625 98% 90%	10.6 U 641 569 625 103% 91%
Blank Blank Spike A	23187 blk 23187 blk spk Spike Concentration Percent Recovery A		Make-up Storm Make-up Storm		4/13/2005 4/13/2005	4/30/2005 4/30/2005	11.2 J 491 625 77%	10.0 U 250 625 40%	12.8 U 545 625 87%	12.1 U 555 625 89%	10.6 U 571 625 91%

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SINCLAIR AND DYES INLET 2005 STORMWATER

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Sequim, Washington 98382

QC Summary - Dyes Inlet and Springbrook Creek Stormwater
PAH/Phthalate Results for Water Samples

Reported in ng/L

PAH Results

								2 4 1			
							naphthalene	2 methyl naphthalene	acenaphthalene	acenaphthene	fluorine
						Surrogate:	паришанене	паришание	асепаришанене	acenaphtnene	nuorme
				Collection	Extraction	Analysis	d8	d8		d10	d10
MSL Sample ID	Client ID	Site Description	Event	Date	Date	Date	naphthalene	naphthalene	d10 acenaphthene	acenaphthene	acenaphthene
Matrix Spike Res	sults										
2318-386	T1304	CH	Storm 1	03/27/05	3/29/2005	5/1/2005	12.6 J	9.01 U	11.5 U	10.9 U	9.59 U
2318-386 Spk A	Spike A		Storm 1		3/29/2005	5/1/2005	476	245	536	556	591
2318-386 Spk B	Spike B		Storm 1		3/29/2005	5/1/2005	383	188	400	427	494
	Spike Concentratio	n					625	625	625	625	625
]	Percent Recovery M	S					74%	39% &	86%	89%	95%
Pe	ercent Recovery MSI						59%	30% &	64%	68%	79%
	RPI)					22%	26%	29%	26%	18%
2318-445	T1313	SW6	Storm 2	04/01/05	4/5/2005	5/1/2005	12.5 J	8.10 U	10.4 U	9.77 U	8.62 U
2318-445 Spk A	Spike A		Storm 2		4/5/2005	5/1/2005	458	234	481	511	554
2318-445 Spk B	Spike B		Storm 2		4/5/2005	5/1/2005	596	307	623	647	669
	Spike Concentratio	n					625	625	625	625	625
]	Percent Recovery M	S					71%	37% &	77%	82%	89%
Pe	ercent Recovery MSI						93%	49%	100%	104%	107%
	RPI)					27%	27%	26%	24%	19%
Laboratory Dupl	licate Results										
2318-382 R-1	T1302	CC	Storm 1	03/27/05	3/29/2005	5/1/2005	14.7 J	7.14 U	9.13 U	8.61 U	7.60 U
2318-382 R-2	T1302	CC	Storm 1	03/27/05	3/29/2005	5/1/2005	16.0 J	7.14 U	9.13 U	8.61 U	7.60 U
	RPI)					9%	NA	NA	NA	NA
2318-446 R-1	T1314	B-ST12	Storm 2	04/01/05	4/5/2005	5/1/2005	6.30 U	7.55 U	9.65 U	9.10 U	8.04 U
2318-446 R-2	T1314	B-ST12	Storm 2	04/01/05	4/5/2005	5/1/2005	6.30 U	7.55 U	9.65 U	9.10 U	8.04 U
	RPI)					NA	NA	NA	NA	NA

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SINCLAIR AND DYES INLET 2005 STORMWATER

QC Summary - Dyes Inlet and Springbrook Creek Stormwater

					phenanthrene	anthracene	fluoranthene	pyrene	benz[a]anthracene	chrysene
MSL Sample ID	Client ID	Site Description	Event	Collection Date	d10 phenanthrene	d10 phenanthrene	d12 chrysene	d12 chrysene	d12 chrysene	d12 chrysene
LABORATORY	REPORTING LIM	IT (RL)			20	20	20	20	20	20
Blanks Method Blank (1)	23185 blk 10x blank		Storm 1		16.4 U	11.6 U	17.9 U	18.7 U	16.0 U	17.6 U
Method Blank (2)	23186 blk 10x blank		Storm 2/wet season		16.4 U	11.6 U	17.9 U	18.7 U	16.0 U	17.6 U
Method Blank (3)	23187 blk 10x blank		Make-up Storm		16.4 U	11.6 U	17.9 U	18.7 U	16.0 U	17.6 U
Blank Spike Resu Blank Blank Spike A Blank Spike B	23185 blk 23185 blk spk A 23185 blk spk B	 	Storm 1 Storm 1 Storm 1	 	16.4 U 603 700 *	11.6 U 614 636 *	17.9 U 685 759	18.7 U 671 3102	16.0 U 730 773	17.6 U 640 666
	Spike Concentratio Percent Recovery	A			625 97% 112%	625 98% 102%	625 110% 121% &	625 107% 496% &	625 117% 124% &	625 102% 107%
Blank Blank Spike A Blank Spike B	23186 blk 23186 blk spk A 23186 blk spk B Spike Concentratio Percent Recovery Percent Recovery	A	Storm 2/wet season Storm 2/wet season Storm 2/wet season	 	16.4 U 675 * 637 625 108% 102%	11.6 U 667 * 590 625 107% 94%	17.9 U 739 670 625 118% 107%	18.7 U 740 666 625 118% 107%	16.0 U 590 693 625 94% 111%	17.6 U 523 638 625 84% 102%
Blank Blank Spike A	23187 blk 23187 blk spk Spike Concentratio Percent Recovery		Make-up Storm Make-up Storm	 	16.4 U 597 625 96%	11.6 U 601 625 96%	17.9 U 665 625 106%	18.7 U 641 625 103%	16.0 U 654 625 105%	17.6 U 608 625 97%

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SINCLAIR AND DYES INLET 2005 STORMWATER

QC Summary - Dyes Inlet and Springbrook Creek Stormwater

					phenanthrene	anthracene	fluoranthene	pyrene	benz[a]anthracene	chrysene
-				Collection	d10	d10		d12		d12
MSL Sample ID	Client ID	Site Description	Event	Date	phenanthrene	phenanthrene	d12 chrysene	chrysene	d12 chrysene	chrysene
Matrix Spike Res	ults									
2318-386	T1304	CH	Storm 1	03/27/05	14.8 U	10.4 U	16.1 U	29.3	14.4 U	15.9 U
2318-386 Spk A	Spike A		Storm 1		643	660	767	730	780	680
2318-386 Spk B	Spike B		Storm 1		555	543	650	632	674	591
	Spike Concentration	on			625	625	625	625	625	625
P	Percent Recovery M	IS			103%	106%	123% &	112%	125% &	109%
Per	rcent Recovery MS	SD			89%	87%	104%	96%	108%	95%
	RP	PD .			15%	19%	17%	15%	15%	14%
2318-445	T1313	SW6	Storm 2	04/01/05	13.3 U	9.37 U	14.5 U	15.1 U	13.0 U	14.3 U
2318-445 Spk A	Spike A		Storm 2		631	629	755	720	742	663
2318-445 Spk B	Spike B		Storm 2		717	729	836	796	830	730
	Spike Concentration	on			625	625	625	625	625	625
P	Percent Recovery M	IS			101%	101%	121% &	115%	119%	106%
Per	rcent Recovery MS	SD			115%	117%	134% &	127% &	133% &	117%
	RP	PD .			13%	15%	10%	10%	11%	10%
Laboratory Dupli	cate Results									
2318-382 R-1	T1302	CC	Storm 1	03/27/05	11.7 U	8.26 U	13.2 J	14.6 J	11.4 U	12.6 U
2318-382 R-2	T1302	CC	Storm 1	03/27/05	11.7 U	8.26 U	12.8 U	13.3 U	11.4 U	12.6 U
	RP	ď			NA	NA	NA	NA	NA	NA
2318-446 R-1	T1314	B-ST12	Storm 2	04/01/05	59.7	8.73 U	206	148	47.0	97.2
2318-446 R-2	T1314	B-ST12	Storm 2	04/01/05	66.0	8.73 U	212	156	54.2	100
	RP	ďD			10%	NA	3%	5%	14%	3%

1529 West Sequim Bay Road Sequim, Washington 98382 (360) 681-4564 QC Summary - Dyes Inlet and Springbrook Creek Stormwater PAH/Phthalate Results for Water Samples Reported in ng/L $\label{eq:particle}$

					benzo[b]fluoranthene	benzo[k]fluoranthene	benzo[a]pyrene	indeno[1,2,3-c,d]pyrene
MSL Sample ID	Client ID	Site Description	Event	Collection Date	d12 perylene	d12 perylene	d12 perylene	d12 perylene
LABORATORY	REPORTING LIMI	IT (RL)			20	20	20	20
Blanks Method Blank (1)	23185 blk 10x blank		Storm 1		15.3 U	14.5 U	17.2 U	14.3 U
Method Blank (2)	23186 blk 10x blank		Storm 2/wet season		15.3 U	14.5 U	17.2 U	14.3 U
Method Blank (3)	23187 blk 10x blank		Make-up Storm		15.3 U	14.5 U	17.2 U	14.3 U
Blank Spike Resu Blank Blank Spike A Blank Spike B	23185 blk 23185 blk spk A 23185 blk spk B	 	Storm 1 Storm 1 Storm 1	 	15.3 U 702 559	14.5 U 675 515	17.2 U 635 2118	14.3 U 688 521
	Spike Concentration Percent Recovery A Percent Recovery I	4			625 112% 89%	625 108% 82%	625 102% 339% &	625 110% 83%
Blank Blank Spike A Blank Spike B	23186 blk 23186 blk spk A 23186 blk spk B Spike Concentration	 	Storm 2/wet season Storm 2/wet season Storm 2/wet season	 	15.3 U 792 * 678	14.5 U 761 * 660 625	17.2 U 704 * 610	14.3 U 794 * 689 625
	Percent Recovery A Percent Recovery I	A			127% & 109%	122% & 106%	113% 98%	127% & 110%
Blank Blank Spike A	23187 blk 23187 blk spk	 	Make-up Storm Make-up Storm		15.3 U 633	14.5 U 627	17.2 U 603	14.3 U 649
	Spike Concentration Percent Recovery A				625 101%	625 100%	625 97%	625 104%

SINCLAIR AND DYES INLET 2005 STORMWATER QC Summary - Dyes Inlet and Springbrook Creek Stormwater

1529 West Sequim Bay Road Sequim, Washington 98382 (360) 681-4564

PAH/Phthalate Results for Water Samples Reported in ng/L

benzo[b]fluoranthene benzo[k]fluoranthene benzo[a]pyrene indeno[1,2,3-c,d]pyrene

					benzo[b]muorantnene	benzo[K]Huorantnene	benzolajpyrene	maeno[1,2,5-c,a]pyrene
				Collection				
MSL Sample ID	Client ID	Site Description	Event	Date	d12 perylene	d12 perylene	d12 perylene	d12 perylene
Matrix Spike Res	sults							
2318-386	T1304	CH	Storm 1	03/27/05	13.8 U	13.1 U	26.1	12.9 U
2318-386 Spk A	Spike A		Storm 1		765	716	692	747
2318-386 Spk B	Spike B		Storm 1		666	628	607	663
	Spike Concentrati	on			625	625	625	625
Percent Recovery MS					122% &	115%	106%	119%
Percent Recovery MSD				107%	100%	93%	106%	
	RI	PD			14%	13%	14%	12%
2318-445	T1313	SW6	Storm 2	04/01/05	12.4 U	11.8 U	13.9 U	11.6 U
2318-445 Spk A	Spike A		Storm 2		761	699	684	726
2318-445 Spk B	Spike B		Storm 2		850	783	769	800
	Spike Concentrati	on			625	625	625	625
Percent Recovery MS				122% &	112%	109%	116%	
Percent Recovery MSD				136% &	125% &	123% &	128% &	
	RI	PD			11%	11%	12%	10%
Laboratory Dupl	icate Results							
2318-382 R-1	T1302	CC	Storm 1	03/27/05	10.9 U	10.4 U	12.3 U	10.2 U
2318-382 R-2	T1302	CC	Storm 1	03/27/05	10.9 U	10.4 U	12.3 U	10.2 U
	RI	PD			NA	NA	NA	NA
2318-446 R-1	T1314	B-ST12	Storm 2	04/01/05	127	43.2	59.9	67.2
2318-446 R-2	T1314	B-ST12	Storm 2	04/01/05	129	43.7	64.1	68.8
	RI				1%	1%	7%	2%

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SINCLAIR AND DYES INLET 2005 STORMWATER

QC Summary - Dyes Inlet and Springbrook Creek Stormwater

PAH/Phthalate Results for Water Samples Reported in ng/L

Phthalate Results

					dibenz[a,h]anthracene	benzo[g,h,i]perylene	di-N-butyl phthalate	butylbenzyl phthalate	bis(2- ethylhexyl) phthalate
MSL Sample ID	Client ID	Site Description	Event	Collection Date	d12 perylene	d12 perylene	d10 phenanthrene	d12 chrysene	d12 perylene
LABORATORY REPORTING LIMIT (RL)					20	20	40	40	40
Blanks Method Blank (1)	23185 blk 10x blank		Storm 1		13.4 U	14.4 U	407 4069	205 2050	1567 15671
Method Blank (2)	23186 blk 10x blank		Storm 2/wet season		13.4 U	14.4 U	649 6487	154 1539	389 3886
Method Blank (3)	23187 blk 10x blank		Make-up Storm		13.4 U	14.4 U	129 1295	97.5 <i>975</i>	91.7 <i>917</i>
Blank Spike Resu Blank Blank Spike A Blank Spike B	23185 blk 23185 blk spk A 23185 blk spk B Spike Concentratio Percent Recovery	A	Storm 1 Storm 1 Storm 1	 	13.4 U 614 467 625 98% 75%	14.4 U 685 516 625 110% 83%	407 2773 EB 2036 EB* 1250 189% & 130% &	205 2201 EB 2129 EB 1250 160% 154%	1567 6162 EB 4024 EB 1250 368% 197%
Blank Blank Spike A Blank Spike B	23186 blk 23186 blk spk A 23186 blk spk B Spike Concentratio Percent Recovery Percent Recovery	A	Storm 2/wet season Storm 2/wet season Storm 2/wet season	 	13.4 U 696 * 606 625 111% 97%	14.4 U 790 * 675 625 126% & 108%	649 1991 EB* 1516 EB 1250 107% 69%	154 1474 EB 1758 EB 1250 106% 128% &	389 2356 EB* 2772 EB 1250 157% & 191% &
Blank Blank Spike A	23187 blk 23187 blk spk Spike Concentratio Percent Recovery		Make-up Storm Make-up Storm		13.4 U 578 625 92%	14.4 U 647 625 103%	129 1438 E 1250 105%	97.5 1644 E 1250 124% &	91.7 3502 E 1250 273% &

SINCLAIR AND DYES INLET 2005 STORMWATER QC Summary - Dyes Inlet and Springbrook Creek Stormwater

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PAH/Phthalate Results for Water Samples Reported in ng/L

Phthalate Results

							I illialate Results		
					dibenz[a,h]anthracene	benzo[g,h,i]perylene	di-N-butyl phthalate	butylbenzyl phthalate	bis(2- ethylhexyl) phthalate
MSL Sample ID	Client ID	Site Description	Event	Collection Date	d12 perylene	d12 perylene	d10 phenanthrene	d12 chrysene	d12 perylene
Matrix Spike Res									_
2318-386	T1304	CH	Storm 1	03/27/05	12.1 U	12.9 U	981 EB	162 EB	681 EB
2318-386 Spk A	Spike A		Storm 1		665	744	2627 E	2275 E	3812 EB
2318-386 Spk B	Spike B		Storm 1		589	659	2387 E	1981 E	3379 EB
	Spike Concentratio Percent Recovery Mstercent Recovery MSI RPI	S D			625 106% 94% 12%	625 119% 105% 12%	1250 132% & 112% 16%	1250 169% & 146% & 15%	1250 251% & 216% & 15%
2318-445	T1313	SW6	Storm 2	04/01/05	10.9 U	11.6 U	992 EB	165 EB	544 EB
2318-445 Spk A	Spike A		Storm 2		632	736	2872 E	2386 E	6910 E
2318-445 Spk B	Spike B		Storm 2		692	807	3067 E	2685 E	7240 E
	Spike Concentratio Percent Recovery Ms ercent Recovery MSI RPI	S D			625 101% 111% 9%	625 118% 129% & 9%	1250 150% & 166% & 10%	1250 178% & 202% & 13%	1250 509% & 536% & 5%
Laboratory Dupl	icate Results								
2318-382 R-1	T1302	CC	Storm 1	03/27/05	9.59 U	10.2 U	3602 E	278 EB	1408 EB
2318-382 R-2	T1302	CC	Storm 1	03/27/05	9.59 U	10.2 U	1376 EB	237 EB	2648 EB
	RPI	D			NA	NA	89% &	16%	61% &
2318-446 R-1	T1314	B-ST12	Storm 2	04/01/05	11.2 J	62.2	840 EB	189 EB	2542 E
2318-446 R-2	T1314	B-ST12	Storm 2	04/01/05	12.2 J	63.6	802 EB	221 EB	9100 E
	RPI	D			9%	2%	5%	16%	113% &

SINCLAIR AND DYES INLET 2005 STORMWATER QC Summary - Dyes Inlet and Springbrook Creek Stormwater

1529 West Sequim Bay Road Sequim, Washington 98382 (360) 681-4564

PAH/Phthalate Results for Water Samples

Surrogate Recoveries

					Surrogate Recoverie				
						d10	d10		
					d8 naphthalene	acenaphthene	phenanthrene	d12 chrysene	d12 perylene
					(%)	(%)	(%)	(%)	(%)
				Collection					
MSL Sample ID	Client ID	Site Description	Event	Date					
LABORATORY	REPORTING LIMI	T (RL)							
Blanks									
Method Blank (1)	23185 blk		Storm 1		77%	86%	106%	101%	106%
	10x blank								
Method Blank (2)	23186 blk		Storm 2/wet season		78%	84%	100%	97%	100%
	10x blank								
Method Blank (3)	23187 blk		Make-up Storm		83%	93%	102%	93%	101%
	10x blank								
Blank Spike Resu	lto.								
Blank	23185 blk		Storm 1		77%	86%	106%	101%	106%
Blank Spike A	23185 blk spk A		Storm 1		80%	85%	100%	99%	100%
Blank Spike B	23185 blk spk B		Storm 1		85%	92%	122% #	109%	75%
	Spike Concentration	1							
	Percent Recovery A								
	Percent Recovery B	3							
Blank	23186 blk		Storm 2/wet season		78%	84%	100%	97%	100%
Blank Spike A	23186 blk spk A		Storm 2/wet season		109%	114%	126% #	94%	129% #
Blank Spike B	23186 blk spk B		Storm 2/wet season		92%	100%	107%	102%	102%
	Spike Concentration Percent Recovery A Percent Recovery E	1							
Blank	23187 blk		Make-up Storm		83% 88%	93% 103%	102%	93%	101% 109%
Blank Spike A	23187 blk spk		Make-up Storm		88%	103%	113%	102%	109%
	Spike Concentration Percent Recovery A								

SINCLAIR AND DYES INLET 2005 STORMWATER QC Summary - Dyes Inlet and Springbrook Creek Stormwater

1529 West Sequim Bay Road Sequim, Washington 98382 (360) 681-4564

PAH/Phthalate Results for Water Samples

Surrogate Recoveries

						d10	d10		
					d8 naphthalene	acenaphthene	phenanthrene	d12 chrysene	d12 perylene
					(%)	(%)	(%)	(%)	(%)
				Collection	(/*/	(70)	(70)	(70)	(70)
MSL Sample ID	Client ID	Site Description	Event	Date					
Matrix Spike Res	sults								
2318-386	T1304	CH	Storm 1	03/27/05	72%	78%	90%	89%	91%
2318-386 Spk A	Spike A		Storm 1		70%	78%	97%	95%	94%
2318-386 Spk B	Spike B		Storm 1		76%	89%	103%	104%	108%
	Spike Concentratio Percent Recovery M Percent Recovery MSI RPI	S D							
2318-445	T1313	SW6	Storm 2	04/01/05	77%	85%	105%	103%	107%
2318-445 Spk A	Spike A		Storm 2		73%	80%	98%	101%	108%
2318-445 Spk B	Spike B		Storm 2		92%	99%	115%	113%	120%
	Spike Concentratio Percent Recovery M Percent Recovery MSI RPI	S D							
Laboratory Dupl	icate Results								
2318-382 R-1	T1302	CC	Storm 1	03/27/05	83%	91%	111%	106%	110%
2318-382 R-2	T1302	CC	Storm 1	03/27/05	85%	93%	106%	100%	105%
	RP	D							
2318-446 R-1	T1314	B-ST12	Storm 2	04/01/05	73%	86%	102%	99%	106%
2318-446 R-2	T1314	B-ST12	Storm 2	04/01/05	73%	86%	107%	103%	108%
	RP	D							

QC Sample Results: 2005 Storm Water Organic Contaminants -PCBs

- Gorst
- Sinclair Inlet
- Dyes Inlet, Wet Season Baseflow

SINCLAIR AND DYES INLET 2005 STORMWATER

QC Summary - Gorst Stormwater

		D					Aroclor 1268	PCB008	PCB018	PCB028	PCB052	PCB044	PCB066
MSL Sample ID	Client ID	Descriptio n	Event	Collection Date	Extraction Date	Analysis Date	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)
LABORATORY	REPORTING LIMIT (RL)					40	2	2	2	2	2	2
Blanks													
Method Blank (1)					1/20/2005		32.6 U	1.15 U	0.75 U	0.32 U	2.36	0.55 U	0.42 U
Method Blank (2) Method Blank (3)						2/17/2005 2/17/2005	32.6 U 32.6 U	1.15 U 1.15 U	0.75 U 0.75 U	0.32 U 0.32 U	1.32 U 1.32 U	0.55 U 0.55 U	0.42 U 0.42 U
` `					1/20/2003	2/17/2003	32.0 0	1.13 0	0.75 0	0.32 0	1.52 0	0.55 0	0.42 0
Blank Spike Resu Blank	<u>ults</u> 23182 Blank A				1/20/2005	2/17/2005	32.6 U	1.15 U	0.75 U	0.32 U	2.36	0.55 U	0.42 U
Blank Spike A	23182 Blank Spike A				1/20/2005		32.6 U	45.0	41.9	41.7	42.5	39.6	66.3
	Spike Concentration						NS	50.0	50.0	50.0	50.0	50.0	50.0
	Percent Recovery A						NA NA	90%	84%	83%	80%	79%	133% &
Blank	23182 Blank B				1/21/2005	2/17/2005	32.6 U	1.15 U	0.75 U	0.32 U	1.32 U	0.55 U	0.42 U
Blank Spike B	23182 Blank Spike B					2/17/2005	32.6 U	34.1	37.1	35.7	34.7	35.2	44.7
	Spike Concentration						NS	50.0	50.0	50.0	50.0	50.0	50.0
	Percent Recovery B						NA NA	68%	74%	71%	69%	70%	89%
Blank	23182 Blank C				1/26/2005	2/17/2005	32.6 U	1.15 U	0.75 U	0.32 U	1.32 U	0.55 U	0.42 U
Blank Spike C	23182 Blank Spike C				1/26/2005	2/18/2005	32.6 U	18.1	21.7	11.4	22.7	22.3	29.4
Blank Spike D	23182 Blank Spike D				1/26/2005	2/18/2005	32.6 U	21.2	19.7	19.2	23.0	19.9	25.5
	Spike Concentration						NS	25.0	25.0	25.0	25.0	25.0	25.0
	Percent Recovery C Percent Recovery D						NA NA	72% 85%	87% 79%	46% 77%	91% 92%	89% 80%	118% 102%
	Percent Recovery D						NA	85%	19%	1170	92%	ð0%	102%
MATRIX SPIKE	E RESULTS												
2318-63	T1103	AC	Storm 1	01/17/05	1/20/2005	2/18/2005	21.0 U	0.742 U	0.484 U	0.206 U	0.852 U	0.355 U	0.271 U
2318-63 Spk A	T1103 MS	AC		01/17/05		2/18/2005	32.6 U	45.6	44.8	24.2	47.0	45.5	62.8
2318-63 Spk B	T1103 MSD	AC		01/17/05	1/20/2005	2/18/2005	32.6 U	42.6	49.8	52.2	57.9	48.1	59.0
_	Spike Concentration MS						NS	50.0	50.0	50.0	50.0	50.0	50.0
2	Spike Concentration MSD Percent Recovery MS						NS NA	50.0 91%	50.0 90%	50.0 48%	50.0 94%	50.0 91%	50.0 126% &
	Percent Recovery MSD						NA NA	85%	100%	104%	116%	96%	120% & 118%
	RPD						1112	7%	10%	73% &	21%	5%	6%
Laboratory Dupl	licate Results												
2318-64 R-1	T1104	LMK122	Storm 1	01/17/05	1/21/2005	2/18/2005	18.6 U	7.31	0.429 U	0.183 U	0.754 U	0.314 U	0.240 U
2318-64 R-2	T1104	LMK122	Storm 1	01/17/05	1/21/2005	2/18/2005	18.6 U	7.67	1.24	0.183 U	0.754 U	0.314 U	0.240 U
	RPD						NA	5%	NA	NA	NA	NA	NA

SINCLAIR AND DYES INLET 2005 STORMWATER

QC Summary - Gorst Stormwater

					PCB101	PCB077	PCB118	PCB153	PCB105	PCB138	PCB126	PCB187	PCB128
MSL Sample ID	Client ID	Descriptio n	Event	Collection Date	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)
LABORATORY	REPORTING LIMIT (I	RL)		Date	2	2	2	2	2	2	2	2	2
Blanks													
Method Blank (1)	23182 Blank A				0.19 U	0.22 U	0.23 U	0.17 U	0.17 U	0.18 U	0.37 U	0.36 U	0.29 U
Method Blank (2)	23182 Blank B				0.19 U	0.22 U	0.23 U	0.17 U	0.17 U	0.18 U	0.37 U	0.36 U	0.29 U
Method Blank (3)	23182 Blank C				0.19 U	0.22 U	0.23 U	0.17 U	0.17 U	0.18 U	0.37 U	0.36 U	0.29 U
Blank Spike Res	ults												
Blank	23182 Blank A				0.19 U	0.22 U	0.23 U	0.17 U	0.17 U	0.18 U	0.37 U	0.36 U	0.29 U
Blank Spike A	23182 Blank Spike A				65.2	63.7	60.1	66.2	64.6	55.3	69.3	67.2	66.6
	Spike Concentration				50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
	Percent Recovery A				130% &	127% &	120%	132% &	129% &	111%	139% &	134% &	133% &
Blank	23182 Blank B				0.19 U	0.22 U	0.23 U	0.17 U	0.17 U	0.18 U	0.37 U	0.36 U	0.29 U
Blank Spike B	23182 Blank Spike B				44.7	42.3	45.8	47.3	48.8	40.8	47.1	44.8	45.5
	Spike Concentration				50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
	Percent Recovery B				89%	85%	92%	95%	98%	82%	94%	90%	91%
Blank	23182 Blank C				0.19 U	0.22 U	0.23 U	0.17 U	0.17 U	0.18 U	0.37 U	0.36 U	0.29 U
Blank Spike C	23182 Blank Spike C				28.5	24.4	26.6	29.5	28.1	24.3	29.0	29.0	23.6
Blank Spike D	23182 Blank Spike D				25.2	22.8	24.3	25.9	25.4	22.6	25.5	25.1	26.8
	Spike Concentration				25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
	Percent Recovery C				114%	97%	107%	118%	112%	97%	116%	116%	95%
	Percent Recovery D				101%	91%	97%	104%	101%	90%	102%	100%	107%
MATRIX SPIKI	E RESULTS												
2318-63	T1103	AC	Storm 1	01/17/05	0.123 U	0.142 U	0.148	0.110 U	0.110 U	0.116 U	0.239 U	0.232 U	0.187 U
2318-63 Spk A	T1103 MS	AC		01/17/05	59.9	56.8	55.3	60.4	60.4	50.9	64.8	59.0	63.0
2318-63 Spk B	T1103 MSD	AC		01/17/05	59.6	50.4	52.7	61.4	60.1	54.0	60.2	59.9	50.3
	Spike Concentration MS				50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
	Spike Concentration MSD				50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
	Percent Recovery MS				120%	114%	111%	121% &	121% &	102%	130% &	118%	126% &
	Percent Recovery MSD RPD				119% 0%	101% 12%	105% 5%	123% & 2%	120% 1%	108% 6%	120% 7%	120% 2%	101% 22%
					0 / 0	12/0	270	2,0	1/0	0 / 0	, , ,	2/0	22/0
Laboratory Dup 2318-64 R-1	<u>licate Results</u> T1104	LMK122	Storm 1	01/17/05	0.109 U	0.126 U	0.131 U	0.097 U	0.097 U	1.89	0.211 U	0.206 U	0.166 U
2318-64 R-2	T1104 T1104	LMK122 LMK122	Storm 1	01/17/05	0.109 U	0.126 U	0.131 U	0.097 U	0.097 U	1.56	0.211 U	0.206 U	0.166 U
2010 0110 2	RPD		Storm 1	31/1//03	NA	NA	NA	NA	NA	19%	NA	NA	NA

BATTELLE MARINE SCIENCES LABORATORIES

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SINCLAIR AND DYES INLET 2005 STORMWATER

QC Summary - Gorst Stormwater

									Surrogate Rec	overies
					PCB200	PCB180	PCB170	PCB195	PCB103	PCB198
MSL Sample ID	Client ID	Descriptio n	Event	Collection Date	(ng/L)	(ng/L)	(ng/L)	(ng/L)	% Recovery	% Recovery
LABORATORY	REPORTING LIMIT (I	RL)			2	2	2	2		
<u>Blanks</u>										
Method Blank (1)	23182 Blank A				0.40 U	0.32 U	0.35 U	1.12 U	86%	138% #
Method Blank (2)	23182 Blank B				0.40 U	0.32 U	0.35 U	1.12 U	87%	129% #
Method Blank (3)	23182 Blank C				0.40 U	0.32 U	0.35 U	1.12 U	73%	86%
Blank Spike Resu	<u>lts</u>									
Blank	23182 Blank A				0.40 U	0.32 U	0.35 U	1.12 U	86%	138% #
Blank Spike A	23182 Blank Spike A				67.4	67.5	58.4	61.3	93%	156% #
	Spike Concentration				50.0	50.0	50.0	50.0		
	Percent Recovery A				135% &	135% &	117%	123% &		
Blank	23182 Blank B				0.40 U	0.32 U	0.35 U	1.12 U	87%	129% #
Blank Spike B	23182 Blank Spike B				43.8	40.9	39.6	43.4	79%	114%
	Spike Concentration				50.0	50.0	50.0	50.0		
	Percent Recovery B				88%	82%	79%	87%		
Blank	23182 Blank C				0.40 U	0.32 U	0.35 U	1.12 U	73%	86%
Blank Spike C	23182 Blank Spike C				28.3	21.1	23.7	26.1	71%	92%
Blank Spike D	23182 Blank Spike D				26.1	19.7	22.7	24.8	66%	89%
	Spike Concentration				25.0	25.0	25.0	25.0		
	Percent Recovery C				113%	84%	95%	104%		
	Percent Recovery D				105%	79%	91%	99%		
MATRIX SPIKE	RESULTS									
2318-63	T1103	AC	Storm 1	01/17/05	0.258 U	0.206 U	0.226 U	0.723 U	80%	129% #
2318-63 Spk A	T1103 MS	AC		01/17/05	61.1	59.0	56.9	58.1	108%	163% #
2318-63 Spk B	T1103 MSD	AC		01/17/05	60.7	52.5	56.5	59.5	103%	142% #
	Spike Concentration MS				50.0	50.0	50.0	50.0		
S	pike Concentration MSD				50.0	50.0	50.0	50.0		
	Percent Recovery MS				122% &	118%	114%	116%		
	Percent Recovery MSD				121% &	105%	113%	119%		
	RPD				1%	12%	1%	2%		
Laboratory Dupli										
2318-64 R-1	T1104	LMK122	Storm 1	01/17/05	0.229 U	0.183 U	0.200 U	0.640 U	72%	116%
2318-64 R-2	T1104	LMK122	Storm 1	01/17/05	0.229 U	0.183 U	0.200 U	0.640 U	66%	108%
	RPD				NA	NA	NA	NA		

SINCLAIR AND DYES INLET 2005 STORMWATER

QC Summary - Sinclair Inlet Stormwater

•							Aroclor 1268	PCB008	PCB018	PCB028	PCB052	PCB044	PCB066
MSL Sample ID	Client ID	Site Description	Event	Collection Date	Extraction Date	Analysis Date	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)
LABORATORY	REPORTING LIMIT (RI	L)					40	2	2	2	2	2	2
Blanks													
Method Blank (1) Method Blank (2)	23183 Blank A 23183 Blank B		Storm 1 Storm 1		03/04/05 03/04/05	3/23/2005 3/23/2005	32.6 U 32.6 U	1.15 U 1.15 U	5.21 0.75 U	0.32 U 0.32 U	1.32 U 1.32 U	0.55 U 0.55 U	0.42 U 0.42 U
	Mean Blank 10x Mean Blank								2.61 26.1				
Method Blank (3) Method Blank (4)	23184 blk 1 23184 blk 2		Storm 2 Storm 2		03/23/05 03/23/05	4/30/2005 4/30/2005	32.6 U 32.6 U	2.86 1.22 J	0.75 U 0.75 U	0.32 U 0.32 U	1.32 U 1.32 U	0.55 U 0.55 U	0.42 U 0.42 U
	Mean Blank 10x Mean Blank							1.43 J					
Blank Spike Resu													
Blank Blank Spike A	23183 Blank B 23181 Blank Spike A		Storm 1 Storm 1		03/04/05 03/04/05	03/23/05 03/23/05	32.6 U 32.6 U	1.15 U 20.4	0.75 U 21.1	0.32 U 17.5	1.32 U 20.4	0.55 U 19.4	0.42 U 31.4
Blank Spike B	23181 Blank Spike B		Storm 1		03/04/05	03/23/05	32.6 U	19.4	19.8	20.1	20.4 19.1	18.8	22.6
	Spike Concentration Percent Recovery A Percent Recovery B						NS NA NA	25.0 82% 78%	25.0 84% 79%	25.0 70% 81%	25.0 81% 77%	25.0 78% 75%	25.0 126% & 90%
Blank	23184 blk 2		Storm 2		03/23/05		32.6 U	1.22 J	0.75 U	0.32 U	1.32 U	0.55 U	0.42 U
Blank Spike A Blank Spike B	23184 Blank Spike A 23184 Blank Spike B		Storm 2 Storm 2		03/23/05 03/23/05	5/1/2005 5/1/2005	32.6 U 32.6 U	26.6 26.7	30.6 32.3	29.2 16.7	27.4 25.3	29.1 26.3	30.7 28.6
	Spike Concentration Percent Recovery A Percent Recovery B						NS NA NA	25.0 101% 102%	25.0 122% & 129% &	25.0 117% 67%	25.0 110% 101%	25.0 116% 105%	25.0 123% & 115%
MATRIX SPIKE	RESULTS												
2318-234	T1202	B-ST28	Storm 1	03/01/05	03/04/05	03/24/05	28.3 U	1.00 U	0.652 U	0.278 U	1.15 U	0.478 U	0.365 U
2318-234 Spk A 2318-234 Spk B	T1202 T1202	B-ST28 B-ST28	Storm 1 Storm 1	03/01/05 03/01/05	03/04/05 03/04/05	03/24/05 03/24/05	28.3 U 28.3 U	49.4 14.1	14.9 22.6	14.5 20.2	15.5 23.8	13.5 19.5	24.1 19.5
	Spike Concentration MS Spike Concentration MSD Percent Recovery MS Percent Recovery MSD RPD						NS NS NA NA	21.7 21.7 228% & 65% 111% &	21.7 21.7 68% 104% 41% &	21.7 21.7 67% 93% 33% &	21.7 21.7 71% 110% 42% &	21.7 21.7 62% 90% 36% &	21.7 21.7 111% 90% 21%

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SINCLAIR AND DYES INLET 2005 STORMWATER

QC Summary - Sinclair Inlet Stormwater

							Aroclor 1268	PCB008	PCB018	PCB028	PCB052	PCB044	PCB066
MSL Sample ID	Client ID	Site Description	Event	Collection Date	Extraction Date	Analysis Date	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)
MATRIX SPIK	E RESULTS, cont.												
2318-312	T1212	PSNS124	Storm 2	03/20/05	03/23/05	5/2/2005	36.2 U	1.28 U	0.83 U	0.36 U	1.47 U	0.61 U	0.47 U
2318-312 Spk A	Spike A				03/23/05	5/2/2005	36.2 U	30.1	30.7	17.8	28.5	30.9	36.0
2318-312 Spk B	Spike B				03/23/05	5/2/2005	36.2 U	31.1	30.6	18.3	28.8	31.2	37.5
	Spike Concentration MS						NS	27.8	27.8	27.8	27.8	27.8	27.8
	Spike Concentration MSD						NS	27.8	27.8	27.8	27.8	27.8	27.8
	Percent Recovery MS						NA	108%	111%	64%	102%	111%	129% &
	Percent Recovery MSD						NA	112%	110%	66%	104%	112%	135% &
	RPD							3%	0%	2%	1%	1%	4%
Laboratory Dup	olicate Results												
2318-235 R-1	T1203	B-ST/CSO16	Storm 1	03/01/05	03/04/05	03/24/05	20.2 U	5.75	0.466 U	0.199 U	0.820 U	0.342 U	0.261 U
2318-235 R-2	T1203	B-ST/CSO16	Storm 1	03/01/05	03/04/05	03/24/05	20.2 U	5.24	0.466 U	0.199 U	0.820 U	0.342 U	0.261 U
	RPD						NA	9%	NA	NA	NA	NA	NA
2318-310 R-1	T1210	B-ST/CSO16	Storm 2	03/20/05	03/23/05	5/1/2005	27.6 U	0.97 U	0.64 U	0.27 U	1.12 U	0.47 U	0.36 U
2318-310 R-2	T1210	B-ST/CSO16	Storm 2	03/20/05	03/23/05	5/2/2005	27.6 U	0.97 U	0.64 U	0.27 U	1.12 U	0.47 U	0.36 U
	RPD						NA	NA	NA	NA	NA	NA	NA

SINCLAIR AND DYES INLET 2005 STORMWATER

QC Summary - Sinclair Inlet Stormwater

					PCB101	PCB077	PCB118	PCB153	PCB105	PCB138	PCB126	PCB187	PCB128
MSL Sample ID	Client ID	Site Description	Event	Collection Date	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)
LABORATORY I	REPORTING LIMIT (RL	<i>.</i>)		2400	2	2	2	2	2	2	2	2	2
<u>Blanks</u>													
Method Blank (1) Method Blank (2)	23183 Blank A 23183 Blank B		Storm 1 Storm 1		0.19 U 0.19 U	0.22 U 0.22 U	0.23 U 0.23 U	2.47 0.17 U	0.17 U 0.17 U	0.18 U 0.18 U	0.37 U 0.37 U	0.36 U 0.36 U	0.29 U 0.29 U
(-)	Mean Blank 10x Mean Blank						0.00	1.23 J					
Method Blank (3) Method Blank (4)	23184 blk 1 23184 blk 2	 	Storm 2 Storm 2		0.19 U 0.19 U	0.22 U 0.22 U	0.23 U 0.23 U	0.17 U 0.17 U	0.17 U 0.17 U	0.18 U 0.18 U	0.37 U 0.37 U	0.36 U 0.90 J	0.29 U 0.29 U
	Mean Blank 10x Mean Blank											0.45 J	
Blank Spike Resul													
Blank Blank Spike A	23183 Blank B 23181 Blank Spike A		Storm 1 Storm 1		0.19 U 28.3	0.22 U 26.0	0.23 U 31.9	0.17 U 31.6	0.17 U 34.0	0.18 U 30.1	0.37 U 34.7	0.36 U 32.5	0.29 U 31.2
Blank Spike B	23181 Blank Spike B		Storm 1		21.4	20.2	21.5	22.9	21.9	20.2	24.3	23.2	21.4
	Spike Concentration Percent Recovery A Percent Recovery B				25.0 113% 86%	25.0 104% 81%	25.0 127% & 86%	25.0 126% & 92%	25.0 136% & 88%	25.0 120% 81%	25.0 139% & 97%	25.0 130% & 93%	25.0 125% & 86%
Blank	23184 blk 2		Storm 2		0.19 U	0.22 U	0.23 U	0.17 U	0.17 U	0.18 U	0.37 U	0.90 Ј	0.29 U
Blank Spike A Blank Spike B	23184 Blank Spike A 23184 Blank Spike B		Storm 2 Storm 2		30.3 28.5	28.0 22.8	29.0 25.2	31.7 27.3	31.5 26.9	31.9 29.2	33.5 30.4	30.3 27.5	28.2 24.6
	Spike Concentration Percent Recovery A Percent Recovery B				25.0 121% & 114%	25.0 112% 91%	25.0 116% 101%	25.0 127% & 109%	25.0 126% & 108%	25.0 127% & 117%	25.0 134% & 122% &	25.0 118% 106%	25.0 113% 99%
MATRIX SPIKE	RESULTS												
2318-234 2318-234 Spk A	T1202 T1202	B-ST28 B-ST28	Storm 1 Storm 1	03/01/05 03/01/05	0.165 U 24.3	0.191 U 15.5	0.200 U 20.2	0.148 U 20.7	0.148 U 19.2	0.157 U 18.4	0.322 U 20.8	0.313 U 21.6	0.252 U 17.5
2318-234 Spk B	T1202	B-ST28	Storm 1	03/01/05	37.8	6.57	19.1	28.2	24.7	20.3	23.7	27.3	21.5
	Spike Concentration MS Spike Concentration MSD Percent Recovery MS Percent Recovery MSD RPD				21.7 21.7 112% 174% & 43% &	21.7 21.7 71% 30% & 81% &	21.7 21.7 93% 88% 6%	21.7 21.7 96% 130% & 31% &	21.7 21.7 89% 114% 25%	21.7 21.7 85% 94% 10%	21.7 21.7 96% 109% 13%	21.7 21.7 100% 126% & 23%	21.7 21.7 80% 99% 21%

BATTELLE MARINE SCIENCES LABORATORIES

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SINCLAIR AND DYES INLET 2005 STORMWATER

QC Summary - Sinclair Inlet Stormwater

					PCB101	PCB077	PCB118	PCB153	PCB105	PCB138	PCB126	PCB187	PCB128
MCI CI- ID	CP4 ID	Site	E4	Collection									
MSL Sample ID	Client ID	Description	Event	Date	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)
MATRIX SPIK	E RESULTS, cont.												
2318-312	T1212	PSNS124	Storm 2	03/20/05	20.5	0.24 U	11.2	35.8	6.98	45.4	0.41 U	17.2	2.35
2318-312 Spk A	Spike A				33.0	29.2	29.2	34.1	31.2	34.2	29.9	31.8	19.6
2318-312 Spk B	Spike B				34.2	31.2	29.4	33.1	33.0	35.8	30.0	31.6	20.2
	Spike Concentration MS				27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8
	Spike Concentration MSD				27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8
	Percent Recovery MS				45%	105%	65%	NC	87%	40%	108%	53%	62%
	Percent Recovery MSD				49%	112%	65%	NC	94%	35% &	108%	52%	64%
	RPD				9%	7%	1%		7%	16%	0%	2%	3%
Laboratory Dug	olicate Results												
2318-235 R-1	T1203	B-ST/CSO16	Storm 1	03/01/05	0.118 U	0.137 U	1.80 J	0.106 U	0.106 U	0.112 U	0.230 U	0.224 U	0.499 J
2318-235 R-2	T1203	B-ST/CSO16	Storm 1	03/01/05	0.118 U	0.137 U	1.40 J	0.106 U	0.106 U	0.112 U	0.230 U	0.224 U	0.346 Ј
	RPD				NA	NA	25%	NA	NA	NA	NA	NA	36% &
2318-310 R-1	T1210	B-ST/CSO16	Storm 2	03/20/05	0.16 U	0.19 U	4.30	9.30	7.46	11.1	0.31 U	0.31 U	1.36 J
2318-310 R-2	T1210	B-ST/CSO16	Storm 2	03/20/05	0.16 U	0.19 U	2.30	6.46	4.57	4.55	0.31 U	0.31 U	0.25 U
	RPD				NA	NA	61% &	36% &	48% &	84% &	NA	NA	NA

SINCLAIR AND DYES INLET 2005 STORMWATER

QC Summary - Sinclair Inlet Stormwater

								Surre	ogate Recoveries	
					PCB200	PCB180	PCB170	PCB195	PCB103	PCB198
MSL Sample ID	Client ID	Site Description	Event	Collection Date	(ng/L)	(ng/L)	(ng/L)	(ng/L)	% Recovery	% Recovery
LABORATORY I	REPORTING LIMIT (RI	L)			2	2	2	2		
Blanks										
Method Blank (1)	23183 Blank A		Storm 1		3.86	0.32 U	0.35 U	1.12 U	56%	84%
Method Blank (2)	23183 Blank B		Storm 1		0.40 U	0.32 U	0.35 U	1.12 U	78%	97%
	Mean Blank 10x Mean Blank				1.93 J					
Method Blank (3)	23184 blk 1		Storm 2		0.40 U	0.32 U	0.35 U	1.12 U	94%	90%
Method Blank (4)	23184 blk 2		Storm 2		0.40 U	0.32 U	0.35 U	1.12 U	115%	100%
	Mean Blank 10x Mean Blank									
Blank Spike Resul	lts									
Blank	23183 Blank B		Storm 1		0.40 U	0.32 U	0.35 U	1.12 U	78%	97%
Blank Spike A	23181 Blank Spike A		Storm 1		30.5	19.4	26.5	30.0	68%	122% #
Blank Spike B	23181 Blank Spike B		Storm 1		21.4	14.7	21.1	23.3	81%	92%
	Spike Concentration Percent Recovery A Percent Recovery B				25.0 122% & 85%	25.0 78% 59%	25.0 106% 84%	25.0 120% 93%		
Blank	23184 blk 2		Storm 2		0.40 U	0.32 U	0.35 U	1.12 U	115%	100%
Blank Spike A	23184 Blank Spike A		Storm 2		29.2	22.4	27.6	29.0	113%	118%
Blank Spike B	23184 Blank Spike B		Storm 2		28.2	40.4	24.4	25.6	116%	99%
	Spike Concentration				25.0	25.0	25.0	25.0		
	Percent Recovery A				117%	90%	110%	116%		
	Percent Recovery B				113%	162% &	98%	103%		
MATRIX SPIKE	-									
2318-234	T1202	B-ST28	Storm 1	03/01/05	0.348 U	0.278 U	0.304 U	1.13	73%	93%
2318-234 Spk A	T1202	B-ST28	Storm 1	03/01/05	19.4	12.5	15.4	19.1	60%	77%
2318-234 Spk B	T1202	B-ST28	Storm 1	03/01/05	25.8	22.5	17.1	21.8	68%	93%
	Spike Concentration MS				21.7	21.7	21.7	21.7		
;	Spike Concentration MSD				21.7	21.7	21.7	21.7		
	Percent Recovery MS				89%	58%	71%	83%		
	Percent Recovery MSD				119%	104%	79%	95%		
	RPD				28%	57% &	11%	14%		

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SINCLAIR AND DYES INLET 2005 STORMWATER

QC Summary - Sinclair Inlet Stormwater

PCB/Aroclor 1268 Results for Water Samples

Surrogate Recoveries

							Bull	ogate Recoveries		
					PCB200	PCB180	PCB170	PCB195	PCB103	PCB198
		Site		Collection						
MSL Sample ID	Client ID	Description	Event	Date	(ng/L)	(ng/L)	(ng/L)	(ng/L)	% Recovery	% Recovery
MATRIX SPIK	E RESULTS, cont.									
2318-312	T1212	PSNS124	Storm 2	03/20/05	6.69	0.36 U	16.4	4.63	100%	101%
2318-312 Spk A	Spike A				28.6	25.2	25.5	29.0	83%	99%
2318-312 Spk B	Spike B				30.7	47.6	26.2	29.3	89%	106%
	Spike Concentration MS				27.8	27.8	27.8	27.8		
	Spike Concentration MSD				27.8	27.8	27.8	27.8		
	Percent Recovery MS				79%	91%	33% &	88%		
	Percent Recovery MSD				86%	171% &	35% &	89%		
	RPD				9%	61% &	7%	1%		
Laboratory Dup	licate Results									
2318-235 R-1	T1203	B-ST/CSO16	Storm 1	03/01/05	0.248 U	0.199 U	0.217 U	1.86 J	62%	79%
2318-235 R-2	T1203	B-ST/CSO16	Storm 1	03/01/05	0.248 U	0.199 U	0.217 U	1.43 J	53%	65%
	RPD				NA	NA	NA	27%		
2318-310 R-1	T1210	B-ST/CSO16	Storm 2	03/20/05	0.96 J	0.27 U	0.30 U	0.95 U	98%	110%
2318-310 R-1 2318-310 R-2	T1210	B-ST/CSO16	Storm 2	03/20/05	0.34 U	0.27 U	0.30 U	0.95 U	93%	85%
2310-310 K-2	RPD	D-51/C5010	Storiii 2	03/20/03	NA	NA	NA	0.93 0	9370	8570

SINCLAIR AND DYES INLET 2005 STORMWATER QC Summary - Dyes Inlet and Springbrook Creek Stormwater

							Aroclor 1268	PCB008	PCB018	PCB028	PCB052	PCB044
MSL Sample ID	Client ID	Site Description	Event	Collection Date	Extraction Date	Analysis Date	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)
LABORATORY I	REPORTING LIMIT	(RL)					40	2	2	2	2	2
Blanks	*********					- / · / · · · · · · · · · · · · · · · ·						
Method Blank (1)	23185 blk		Storm 1		3/29/2005	5/1/2005	32.6 U	1.15 U	0.75 U	0.32 U	1.32 U	0.55 U
Method Blank (2)	23186 blk		Storm 2/wet season		4/5/2005	5/1/2005	32.6 U	1.15 U	0.75 U	0.32 U	1.32 U	0.55 U
Method Blank (3)	23187 blk		Make-up Storm		4/13/2005	5/1/2005	32.6 U	1.15 U	0.75 U	0.32 U	1.32 U	0.55 U
Blank Spike Resul	<u>lts</u>											
Blank	23185 blk		Storm 1		3/29/2005	5/1/2005	32.6 U	1.15 U	0.75 U	0.32 U	1.32 U	0.55 U
Blank Spike A	23185 blk spk A		Storm 1		3/29/2005	5/1/2005	32.6 U	24.8	30.9	17.1	25.9	25.4
Blank Spike B	23185 blk spk B		Storm 1		3/29/2005	5/1/2005	32.6 U	26.5	31.8	32.9	26.2	28.0
	Spike Concentration						NS	25.0	25.0	25.0	25.0	25.0
	Percent Recovery A						NA	99%	124% &	68%	104%	102%
	Percent Recovery B						NA	106%	127% &	132%	105%	112%
Blank	23186 blk		Storm 2/wet season		4/5/2005	5/1/2005	32.6 U	1.15 U	0.75 U	0.32 U	1.32 U	0.55 U
Blank Spike A	23186 blk spk A		Storm 2/wet season		4/5/2005	5/1/2005	32.6 U	13.8	17.4	15.6	14.9	15.8
Blank Spike B	23186 blk spk B		Storm 2/wet season		4/5/2005	5/1/2005	32.6 U	12.8	14.7	14.3	13.4	14.3
	Spike Concentration						NS	25.0	25.0	25.0	25.0	25.0
	Percent Recovery A						NA	55%	70%	62%	60%	63%
	Percent Recovery B						NA	51%	59%	57%	54%	57%
Blank	23187 blk		Make-up Storm		4/13/2005	5/1/2005	32.6 U	1.15 U	0.75 U	0.32 U	1.32 U	0.55 U
Blank Spike A	23187 blk spk		Make-up Storm		4/13/2005	5/1/2005	32.6 U	31.0	34.6	34.7	31.8	31.7
	Spike Concentration						NS	25.0	25.0	25.0	25.0	25.0
	Percent Recovery C						NA	124% &	138% &	139% &	127% &	127% &

SINCLAIR AND DYES INLET 2005 STORMWATER QC Summary - Dyes Inlet and Springbrook Creek Stormwater

							Aroclor 1268	PCB008	PCB018	PCB028	PCB052	PCB044
Mar a 1 m	CII . ID	Site		Collection	Extraction	Analysis						
MSL Sample ID	Client ID	Description	Event	Date	Date	Date	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)
MATRIX SPIKE	RESULTS											
2318-386	T1304	CH	Storm 1	03/27/05	3/29/2005	5/2/2005	29.4 U	1.04 U	0.68 U	0.29 U	1.19 U	0.50 U
2318-386 Spk A	Spike A		Storm 1		3/29/2005	5/3/2005	32.6 U	33.2	34.2	32.5	28.0	28.6
2318-386 Spk B	Spike B		Storm 1		3/29/2005	5/3/2005	32.6 U	33.3	31.3	29.9	26.8	27.1
	Spike Concentration						NS	25.0	25.0	25.0	25.0	25.0
	Percent Recovery MS						NA	133% &	137% &	130% &	112%	114%
	ercent Recovery MSD						NA	133% &	125% &	120%	107%	108%
	RPD							0%	9%	8%	5%	5%
2318-445	T1313	SW6	Storm 2/wet season	04/01/05	4/5/2005	5/3/2005	26.4 U	0.93 U	0.61 U	0.26 U	1.07 U	0.45 U
2318-445 Spk A	Spike A		Storm 2/wet season		4/5/2005	5/3/2005	32.6 U	13.9	19.0	9.37	15.8	20.3
2318-445 Spk B	Spike B		Storm 2/wet season		4/5/2005	5/3/2005	32.6 U	12.6	18.1	10.6	17.2	22.0
	Spike Concentration						NS	25.0	25.0	25.0	25.0	25.0
	Percent Recovery MS						NA	56%	76%	37% &	63%	81%
P	ercent Recovery MSD						NA	50%	73%	42%	69%	88%
	RPD							10%	4%	12%	8%	8%
Laboratory Dupl	icate Results											
2318-382 R-1	T1302	CC	Storm 1	03/27/05	3/29/2005	5/2/2005	23.3 U	0.82 U	0.54 U	0.23 U	0.94 U	0.39 U
2318-382 R-2	T1302	CC	Storm 1	03/27/05	3/29/2005	5/2/2005	23.3 U	0.82 U	0.54 U	0.23 U	0.94 U	0.39 U
	RPD						NA	NA	NA	NA	NA	NA
2318-446 R-1	T1314	B-ST12	Storm 2/wet season	04/01/05	4/5/2005	5/3/2005	24.6 U	0.87 U	0.57 U	0.24 U	1.00 U	0.42 U
2318-446 R-2	T1314	B-ST12	Storm 2/wet season	04/01/05	4/5/2005	5/3/2005	24.6 U	0.87 U	0.57 U	0.24 U	1.00 U	0.42 U
	RPD						NA	NA	NA	NA	NA	NA
	KPD						NA	NA	NA	NA	NA	NA

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SINCLAIR AND DYES INLET 2005 STORMWATER QC Summary - Dyes Inlet and Springbrook Creek Stormwater

		g.			PCB066	PCB101	PCB077	PCB118	PCB153	PCB105	PCB138	PCB126
MSL Sample ID	Client ID	Site Description	Event	Collection Date	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)
LABORATORY	REPORTING LIMIT	(RL)			2	2	2	2	2	2	2	2
Blanks Method Blank (1)	23185 blk		Storm 1		0.42 U	0.19 U	0.22 U	0.23 U	0.17 U	0.17 U	0.18 U	0.37 U
Method Blank (2)	23186 blk		Storm 2/wet season		0.42 U	1.35 J	0.22 U	0.23 U	0.17 U	0.17 U	0.18 U	0.37 U
Method Blank (3)	23187 blk		Make-up Storm		0.42 U	0.19 U	0.22 U	0.23 U	0.17 U	0.17 U	0.18 U	0.37 U
Blank Spike Resu Blank Blank Spike A Blank Spike B	23185 blk 23185 blk spk A 23185 blk spk B	 	Storm 1 Storm 1 Storm 1	 	0.42 U 28.0 29.7	0.19 U 27.0 27.8	0.22 U 25.4 27.9	0.23 U 26.1 27.2	0.17 U 27.9 30.0	0.17 U 26.9 27.4	0.18 U 29.4 30.8	0.37 U 28.8 30.7
	Spike Concentration Percent Recovery A Percent Recovery B				25.0 112% 119%	25.0 108% 111%	25.0 102% 112%	25.0 104% 109%	25.0 112% 120%	25.0 108% 110%	25.0 118% 123% &	25.0 115% 123% &
Blank Blank Spike A Blank Spike B	23186 blk 23186 blk spk A 23186 blk spk B	 	Storm 2/wet season Storm 2/wet season Storm 2/wet season	 	0.42 U 16.6 15.2	1.35 J 16.4 14.8	0.22 U 14.8 14.4	0.23 U 15.3 14.8	0.17 U 16.8 15.7	0.17 U 29.9 28.0	0.18 U 31.9 29.2	0.37 U 33.2 30.5
	Spike Concentration Percent Recovery A Percent Recovery B				25.0 66% 61%	25.0 60% 54%	25.0 59% 58%	25.0 61% 59%	25.0 67% 63%	25.0 120% 112%	25.0 127% & 117%	25.0 133% & 122% &
Blank Blank Spike A	23187 blk 23187 blk spk		Make-up Storm Make-up Storm		0.42 U 33.5	0.19 U 33.7	0.22 U 34.7	0.23 U 32.4	0.17 U 37.5	0.17 U 34.2	0.18 U 37.1	0.37 U 37.2
	Spike Concentration Percent Recovery C				25.0 134% &	25.0 135% &	25.0 139% &	25.0 130% &	25.0 150% &	25.0 137% &	25.0 148% &	25.0 149% &

SINCLAIR AND DYES INLET 2005 STORMWATER QC Summary - Dyes Inlet and Springbrook Creek Stormwater

					PCB066	PCB101	PCB077	PCB118	PCB153	PCB105	PCB138	PCB126
		Site	_	Collection								
MSL Sample ID	Client ID	Description	Event	Date	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)
MATRIX SPIKE	E RESULTS											
2318-386	T1304	CH	Storm 1	03/27/05	0.38 U	0.17 U	0.20 U	0.21 U	0.15 U	0.15 U	0.16 U	0.33 U
2318-386 Spk A	Spike A		Storm 1		29.8	29.9	31.0	28.2	30.3	33.5	36.6	34.3
2318-386 Spk B	Spike B		Storm 1		38.6	28.4	26.4	26.8	28.7	29.6	30.6	28.2
	Spike Concentration				25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
	Percent Recovery MS				119%	120%	124% &	113%	121% &	134% &	147% &	137% &
P	Percent Recovery MSD				154% &	114%	106%	107%	115%	119%	122% &	113%
	RPD				26%	5%	16%	5%	6%	12%	18%	19%
2318-445	T1313	SW6	Storm 2/wet season	04/01/05	0.34 U	0.34 J	0.18 U	0.19 U	0.14 U	0.14 U	0.15 U	0.30 U
2318-445 Spk A	Spike A		Storm 2/wet season		18.1	16.4	14.6	15.4	16.1	30.6	30.0	28.2
2318-445 Spk B	Spike B		Storm 2/wet season		20.6	18.0	17.2	16.7	17.5	31.9	31.8	33.3
	Spike Concentration				25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
	Percent Recovery MS				73%	64%	58%	61%	64%	123% &	120%	113%
P	Percent Recovery MSD				82%	71%	69%	67%	70%	127% &	127% &	133% &
	RPD				13%	10%	17%	8%	9%	4%	6%	17%
Laboratory Dupl	licate Results											
2318-382 R-1	T1302	CC	Storm 1	03/27/05	0.30 U	0.27 J	0.16 U	0.16 U	0.12 U	0.12 U	0.13 U	0.26 U
2318-382 R-2	T1302	CC	Storm 1	03/27/05	0.30 U	0.14 U	0.16 U	0.16 U	0.12 U	0.12 U	0.13 U	0.26 U
	RPD				NA	NA	NA	NA	NA	NA	NA	NA
2318-446 R-1	T1314	B-ST12	Storm 2/wet season	04/01/05	0.32 U	0.14 U	0.42 J	0.17 U	0.13 U	0.81 J	0.14 U	0.28 U
2318-446 R-2	T1314	B-ST12	Storm 2/wet season	04/01/05	0.32 U	0.14 U	0.44 J	0.17 U	0.13 U	0.13 U	0.14 U	0.28 U
	RPD				NA	NA.	4%	NA	NA	NA	NA	NA

SINCLAIR AND DYES INLET 2005 STORMWATER

QC Summary - Dyes Inlet and Springbrook Creek Stormwater

										Surrogate Reco	veries	
		G!.			PCB187	PCB128	PCB200	PCB180	PCB170	PCB195	PCB103	PCB198
MSL Sample ID	Client ID	Site Description	Event	Collection Date	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	% Recovery	% Recovery
LABORATORY I	REPORTING LIMIT	(RL)			2	2	2	2	2	2		
Blanks Method Blank (1)	23185 blk		Storm 1		0.36 U	0.29 U	0.40 U	0.32 U	0.35 U	1.12 U	97%	113%
Method Blank (2)	23186 blk		Storm 2/wet season		1.71 J	0.29 U	0.40 U	0.32 U	0.35 U	1.12 U	96%	105%
Method Blank (3)	23187 blk		Make-up Storm		0.36 U	0.29 U	0.40 U	0.32 U	0.35 U	1.12 U	88%	102%
Blank Spike Resul Blank Blank Spike A Blank Spike B	23185 blk 23185 blk spk A 23185 blk spk B	 	Storm 1 Storm 1 Storm 1	 	0.36 U 27.5 29.1	0.29 U 24.8 26.6	0.40 U 26.7 28.2	0.32 U 19.8 45.3	0.35 U 24.5 26.4	1.12 U 25.8 28.0	97% 108% 93%	113% 100% 109%
	Spike Concentration Percent Recovery A Percent Recovery B				25.0 110% 117%	25.0 99% 107%	25.0 107% 113%	25.0 79% 181%	25.0 98% 105%	25.0 103% 112%		
Blank Blank Spike A Blank Spike B	23186 blk 23186 blk spk A 23186 blk spk B	 	Storm 2/wet season Storm 2/wet season Storm 2/wet season	 	1.71 J 29.8 27.6	0.29 U 27.6 25.7	0.40 U 31.6 26.8	0.32 U 39.4 20.1	0.35 U 26.8 24.1	1.12 U 28.2 26.6	96% 61% 47%	105% 119% 94%
	Spike Concentration Percent Recovery A Percent Recovery B				25.0 112% 104%	25.0 110% 103%	25.0 126% & 107%	25.0 158% & 80%	25.0 107% 97%	25.0 113% 106%		
Blank Blank Spike A	23187 blk 23187 blk spk		Make-up Storm Make-up Storm		0.36 U 35.0	0.29 U 32.6	0.40 U 33.9	0.32 U 43.8	0.35 U 31.0	1.12 U 32.9	88% 104%	102% 115%
	Spike Concentration Percent Recovery C				25.0 140% &	25.0 130% &	25.0 135% &	25.0 175% &	25.0 124% &	25.0 131% &		

SINCLAIR AND DYES INLET 2005 STORMWATER

QC Summary - Dyes Inlet and Springbrook Creek Stormwater

											Surrogate Reco	veries
					PCB187	PCB128	PCB200	PCB180	PCB170	PCB195	PCB103	PCB198
MSL Sample ID	Client ID	Site Description	Event	Collection Date	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	% Recovery	% Recovery
MATRIX SPIKE	RESULTS											
2318-386	T1304	CH	Storm 1	03/27/05	0.68 J	0.26 U	0.36 U	0.29 U	0.32 U	1.01 U	85%	91%
2318-386 Spk A	Spike A		Storm 1		34.0	30.7	33.2	45.7	27.4	27.5	93%	101%
2318-386 Spk B	Spike B		Storm 1		27.3	30.2	27.3	22.4	25.3	27.5	96%	106%
	Spike Concentration				25.0	25.0	25.0	25.0	25.0	25.0		
I	Percent Recovery MS				133% &	123% &	133% &	183% &	110%	110%		
Pe	ercent Recovery MSD				106%	121% &	109%	90%	101%	110%		
	RPD				22%	2%	19%	68% &	8%	0%		
2318-445	T1313	SW6	Storm 2/wet season	04/01/05	0.29 U	0.23 U	0.32 U	0.26 U	0.28 U	0.91 U	91%	104%
2318-445 Spk A	Spike A		Storm 2/wet season		27.6	26.3	25.4	22.8	24.1	27.0	52%	105%
2318-445 Spk B	Spike B		Storm 2/wet season		30.6	27.7	30.8	23.9	26.0	28.0	61%	112%
	Spike Concentration				25.0	25.0	25.0	25.0	25.0	25.0		
I	Percent Recovery MS				110%	105%	101%	91%	96%	108%		
Pe	ercent Recovery MSD				122% &	111%	123% &	96%	104%	112%		
	RPD				10%	5%	19%	5%	7%	4%		
Laboratory Dupli	cate Results											
2318-382 R-1	T1302	CC	Storm 1	03/27/05	0.26 U	0.21 U	0.29 U	0.23 U	0.25 U	0.80 U	95%	112%
2318-382 R-2	T1302	CC	Storm 1	03/27/05	0.26 U	0.21 U	0.29 U	0.23 U	0.25 U	0.80 U	99%	104%
	RPD				NA	NA	NA	NA	NA	NA		
2318-446 R-1	T1314	B-ST12	Storm 2/wet season	04/01/05	0.27 U	0.22 U	0.30 U	0.24 U	0.26 U	0.85 U	102%	100%
2318-446 R-2	T1314	B-ST12	Storm 2/wet season	04/01/05	0.27 U	0.22 U	0.30 U	0.24 U	0.26 U	0.85 U	110%	106%
	RPD				NA	NA	NA	NA	NA	NA		

QA Narratives: 2005 Storm Water Organic Contaminants

- Gorst
- Sinclair Inlet
- Dyes Inlet

PROJECT: Sinclair and Dyes Inlet Storm Water Study – Storm Season 2005 Gorst Events 1 and 2

PARAMETER: Organics – PAH, Phthalates and PCBs

LABORATORY: Battelle Marine Sciences Laboratory, Sequim, Washington

MATRIX: Storm Water (zero or negligible salinity)

SAMPLE CUSTODY AND PROCESSING: Battelle received storm water samples collected during the 2005 Gorst Events 1 and 2. Samples from Gorst Event 1 were received on 01/18/05. Samples from Gorst Event 2 were received on 01/23/05. All samples were received in good condition. Select samples from each event were composited at MSL by either flow proportioning or equal proportioning of discrete samples.

Samples were assigned a Battelle Central File (CF) identification number (2318) and were entered into Battelle's sample tracking system.

The following lists information on sample receipt and processing activities:

EVENT	Composite Collection Date	Laboratory Arrival Date	Extraction Date	PAH/ Phthalate Analysis Date	PCB Analysis Date
Gorst Storm 1	01/17/05	01/18/05	01/20/05 and 01/21/05	02/16/05	02/18/05 02/19/05
Gorst Storm 2	01/22/05	01/23/05	01/26/05		02/19/05

QA/QC PROJECT DATA QUALITY OBJECTIVES:

	Analytical	Reporting	MS Range of	Laboratory Control Sample	Surrogate Spike
Analyte	Method	Limits (ng/L)	Recovery	•	Recovery
PAH	GC-MS	20	40-120%	40-120%	40-120%
Phthalates	GC-MS	40	40-120%	40-120%	40-120%
PCB Congeners	GC-ECD	2	40-120%	40-120%	40-120%
Aroclor 1268	GC-ECD	40	40-120%	40-120%	40-120%

METHODS:

All samples were extracted and analyzed in accordance with the following Battelle methods:

- o <u>MSL-O-010</u> Extraction and Cleanup of Water for Semivolatile Organics Following the Surrogate Internal Standard Method.
- o <u>MSL-O-008</u> Operation and Maintenance of Gas Chromatographs (GC) and Gas Chromatograph/Mass Spectrometer (GC/MS) Systems.
- MSL-O-015 Identification and Quantification of Polynuclear Aromatic Hydrocarbons by Gas Chromatography/Mass Spectrometry Following EPA Method 8270B Quality Control Criteria.
- MSL-O-016 Analysis of PCBs and Chlorinated Pesticides by Gas
 Chromatography with Electron Capture Detection Following EPA METHOD 8080A Quality Control Criteria.

Results are reported as not blank corrected in units of ng/L for each sample.

HOLDING TIMES: Established holding times of 7 days from collection for the extraction procedure and 40

days from extraction for the analyses were achieved for all samples.

DETECTION LIMITS: Detection limits were determined on a per sample basis and data are flagged (U) using

sample specific MDLs. Reporting limits (RL) were established based on a low standard concentration and data are flagged (J) to identify concentrations less than the RL but

greater than the MDL.

DATA QUALIFIERS:

- U Not detected at or above MDL, sample specific MDL reported
- J Concentration less than RL but greater than MDL
- E Estimate
- & Spiked sample outside control limits of 40-120% recovery; precision <30%
- B Sample concentration is <10x blank
- * Associated Surrogate recovery exceeds control limit (flag applied to samples)
- # Surrogate recovery outside control limits (40-120% flag applied to surrogate)

METHOD BLANK:

PAHs and Phthalates:

Three method blanks were extracted and analyzed with this batch of samples. Analytes were not detected in the PAH method blanks above the MDL with the exception of dibenz[a,h]anthracene. The two subsequent blanks did not contain detectable dibenz[a,h]anthracene and only one sample (T1103-AC) in the extraction batch contained dibenz[a,h]anthracene at a level greater than the MDL. The data point was flagged.

The three phthalate compounds were detected in the blank. The phthalate data are flagged as estimates and data usage should be limited to research evaluation.

PCBs:

Three method blanks were extracted and analyzed with this batch of samples. Analytes were not detected in the blank above the RL with the exception of PCB052. This congener was not detected above the MDL for any of the samples.

LABORATORY CONTROL SAMPLE/BLANK SPIKE RECOVERY:

PAHs and Phthalates:

Four blank spikes were extracted and analyzed with this batch of samples. Blank spike samples were within the QC criterion of 40-120% for all PAH compounds except the 2-methyl naphthalene (39%, 28%, 36%, and 27%). Two samples contained detectable concentrations of 2-methyl naphthalene. The data are flagged as estimates (E).

Four blank spikes was extracted and analyzed with this batch of samples. Due to the variable method blanks a majority of the blank spikes for the phthalate compounds were outside the QC criterion. The data are all flagged as estimated and data usage should be limited to research evaluation.

PCBs:

Four blank spikes was extracted and analyzed with this batch of samples. The PCB198 surrogate in blank spike A recovered high indicating the sample volume was reduced more than the 1ml anticipated. As a result, the spike recoveries for PCB congeners 066 and greater recovered high. In all cases, the additional blank spikes were within the QC criterion.

MATRIX SPIKE RECOVERY:

PAHs and Phthalates:

Matrix spike (MS) and matrix spike duplicate (MSD) samples were extracted and analyzed with this batch of samples. The percent recoveries for the MS/MSD samples were within the QC criterion of 40-120% for all PAH compounds except one spike for benz[a]anthracene (121%).

The matrix spike recoveries for the phthalate compounds were all outside the QC criterion. The data are all flagged as estimated and data usage should be limited to research evaluation.

MATRIX SPIKE RECOVERY conti.:

PCBs:

Matrix spike (MS) and matrix spike duplicate (MSD) samples were extracted and analyzed with this batch of samples. PCB congeners were within the QC criterion of 40-120% with the exception of PCB066 (126%), PCB153 (121%, 123%), PCB105 (121%), PCB126 (130%), PCB128 (126%), and PCB200 (122%, 121%). The recoveries were less than 10% outside the criterion and may be attributed to the high surrogate recovery for PCB198. In all cases, expectable blank spikes support the data and these PCB congeners were not detected in the samples above the RL.

LABORATORY PRECISION:

Laboratory precision was expressed as the relative percent difference (RPD) between the matrix spike duplicates and the laboratory duplicates.

PAHs and Phthalates:

The RPD values for the matrix spike duplicate were within the QC criterion for all PAH and phthalate compounds.

The RPD values for the laboratory duplicates were within the QC criterion for all PAH and phthalate compounds with the exception of phenanthrene (77%) and chrysene (76%). The high RPD values may be attributed to the particulate material in the stormwater samples.

PCBs:

The RPD values for the matrix spike duplicate were within the QC criterion for all PCB congeners with the exception of PCB028 (73%).

The RPD values for the laboratory duplicates were within the QC criterion for all PCB congeners detected above the RL.

SURROGATE RECOVERIES:

Surrogates compounds were used to evaluate the recovery of the extraction and clean-up process for the PAHs, phthalates, and PCB congeners.

PAHs and Phthalates:

The percent recoveries for the surrogates were all within the project QC criterion of 40-120% recovery.

PCBs:

The PCB198 surrogate was outside the project QC criterion of 40-120% for three field samples. The impact to the data was negligible as the surrogate recoveries were high, but no PCB congeners were detected in the sample above the RL. The PCB198 surrogate was also outside the QC criterion for two method blanks, one blank spike, and two matrix spikes. In all cases, the alternate surrogate was acceptable.

PROJECT: Sinclair and Dyes Inlet Storm Water Study – Storm Season 2005 Sinclair Storms 1 and 2

PARAMETER: Organics – PAH, Phthalates and PCBs

LABORATORY: Battelle Marine Sciences Laboratory, Sequim, Washington

MATRIX: Storm Water (zero or negligible salinity)

SAMPLE CUSTODY AND PROCESSING: Battelle received storm water samples collected during the 2005 Sinclair Event Storms 1 and 2. Samples from Sinclair Storm 1 were received on 03/02/05. Samples from Sinclair storm 2 were received on 03/21/05. All samples were received in good condition. Select samples from each event were composited at MSL by either flow proportioning or equal proportioning of discrete samples.

Samples were assigned a Battelle Central File (CF) identification number (2318) and were entered into Battelle's sample tracking system.

The following lists information on sample receipt and processing activities:

EVENT	Composite Collection Date	Laboratory Arrival Date	Extraction Date	PAH/ Phthalate Analysis Date	PCB Analysis Date
Sinclair Storm 1	03/02/05	03/02/05	03/04/05	03/18/05	03/24/05
Sinclair Storm 2	03/21/05	03/21/05	03/20/05	04/30/05	05/01/05 05/02/05

QA/QC PROJECT DATA QUALITY OBJECTIVES:

Analyte	Analytical Method	Reporting Limits (ng/L)	MS Range of Recovery	Laboratory Control Sample	Surrogate Spike Recovery
PAH	GC-MS	20	40-120%	40-120%	40-120%
Phthalates	GC-MS	40	40-120%	40-120%	40-120%
PCB Congeners	GC-ECD	2	40-120%	40-120%	40-120%
Aroclor 1268	GC-ECD	40	40-120%	40-120%	40-120%

METHODS:

All samples were extracted and analyzed in accordance with the following Battelle methods:

- o <u>MSL-O-010</u> Extraction and Cleanup of Water for Semivolatile Organics Following the Surrogate Internal Standard Method.
- o <u>MSL-O-008</u> Operation and Maintenance of Gas Chromatographs (GC) and Gas Chromatograph/Mass Spectrometer (GC/MS) Systems.
- MSL-O-015 Identification and Quantification of Polynuclear Aromatic Hydrocarbons by Gas Chromatography/Mass Spectrometry Following EPA Method 8270B Quality Control Criteria.
- MSL-O-016 Analysis of PCBs and Chlorinated Pesticides by Gas
 Chromatography with Electron Capture Detection Following EPA METHOD 8080A Quality Control Criteria.

Results are reported as not blank corrected in units of ng/L for each sample.

HOLDING TIMES: Established holding times of 7 days from collection for the extraction procedure and 40

days from extraction for the analyses were achieved for all samples.

DETECTION LIMITS: Detection limits were determined on a per sample basis and data are flagged (U) using

sample specific MDLs. Reporting limits (RL) were established based on a low standard concentration and data are flagged (J) to identify concentrations less than the RL but

greater than the MDL.

DATA QUALIFIERS:

- U Not detected at or above MDL, sample specific MDL reported
- J Concentration less than RL but greater than MDL
- E Estimate
- & Spiked sample outside control limits of 40-120% recovery; precision <30%
- B Sample concentration is <10x blank
- * Associated Surrogate recovery exceeds control limit (flag applied to samples)
- # Surrogate recovery outside control limits (40-120% flag applied to surrogate)

ANALYTICAL NOTE:

Two samples in this batch were lost during the extraction processes due to broken glassware. One sample was from storm 1 and one sample from storm 2. In both cases the sample lost was collected from PSNS126.

METHOD BLANK:

PAHs and Phthalates:

Two method blanks were extracted and analyzed with each of the two batches of stormwater samples. The average blank for each batch of samples was less than the RL for all analytes except benzo[a]pyrene in the storm 1 batch. Sample concentrations less than 10 times the average blank were flagged.

The three phthalate compounds were detected in the blank. The phthalate data are flagged as estimates and data usage should be limited to research evaluation.

PCBs:

Two method blanks were extracted and analyzed with each of the two batches of stormwater samples. The average blank for each batch of samples was less than the RL for all analytes except PCB018 for the storm 1 batch. Sample concentrations less than 10 times the average blank were flagged.

LABORATORY CONTROL SAMPLE/BLANK SPIKE RECOVERY:

PAHs

Four blank spikes were extracted and analyzed with this batch of samples. Blank spike samples were within the QC criterion of 40-120% for all PAH compounds except the 2-methyl naphthalene (39%, 28%, 34%, and 35%) and one spike for benz[a]anthracene (121%). Two samples contained detectable concentrations of 2-methyl naphthalene. The data are flagged as estimates (E) due to the consistent low recovery.

Phthalates

Four blank spikes was extracted and analyzed with this batch of samples. Due to the variable method blanks a majority of the blank spikes for the phthalate compounds were outside the QC criterion. The data are all flagged as estimated and data usage should be limited to research evaluation.

PCBs:

Four blank spikes was extracted and analyzed with this batch of samples. Blank spike samples were within the project QC criterion of 40-120% for all PCB congeners except PCB018 (122%, 129%), PCB066 (126%, 123%), PCB101 (121%), PCB118 (127%), PCB153 (126%, 127%), PCB105 (136%, 126%), PCB138 (127%), PCB126 (139%, 134%, 122%), PCB187 (130%), PCB128 (125%), PCB200 (122%), and PCB180 (162%). All recoveries except one fall within the method criterion of 50-150% recovery.

MATRIX SPIKE RECOVERY:

PAHs

Two sets of matrix spike (MS) and matrix spike duplicate (MSD) samples were extracted and analyzed with this batch of samples. The percent recoveries for the MS/MSD samples were within the project QC criterion of 40-120% for all PAH compounds except 2-methyl naphthalene (31%, 39%, and 38%) and one spike for dibenz[a,h]anthracene (22%).

MATRIX SPIKE RECOVERY conti.:

Phthalates

A majority of the matrix spike recoveries for the phthalate compounds were outside the QC criterion. The data are all flagged as estimated and data usage should be limited to research evaluation.

PCBs:

Two sets of matrix spike (MS) and matrix spike duplicate (MSD) samples were extracted and analyzed with this batch of samples. PCB congeners were within the project QC criterion of 40-120% with the exception of PCB008 (228%), PCB101 (174%), PCB066 (129%, 135%), PCB077 (30%), PCB153 (130%), PCB138 (35%), PCB187 (126%), PCB180 (171%), and PCB170 (33%, 35%). A majority of the recoveries fall with the method QC criterion of 50-150% recovery.

LABORATORY PRECISION:

Laboratory precision was expressed as the relative percent difference (RPD) between the matrix spike duplicates and the laboratory duplicates. The stormwater samples collected from the Sinclair Event locations contained notable amounts of particulate material. This made replication of the water samples extremely difficult and resulted in multiple precision failures. The failures are not attributed to laboratory practices, no corrective action was initiated.

PAHs and Phthalates:

The RPD values for the matrix spike duplicate were within the QC criterion of RPD \leq 30% for sample T1212. Several RPDs for sample T1202 were outside the QC criterion and are flagged. Several RPDs were outside the QC criterion for the phthalate compounds.

The RPD values for the laboratory duplicates were generally outside the QC criterion for the PAH and phthalate compounds due to large amounts of particulates in the stormwater.

PCBs:

Several RPD values for the matrix spike duplicate were outside the QC criterion. In all cases, the alternate MS/MSD was acceptable.

Several RPD values for the laboratory duplicates were outside the QC criterion.

SURROGATE RECOVERIES:

Surrogates compounds were used to evaluate the recovery of the extraction and clean-up process for the PAHs, phthalates, and PCB congeners.

PAHs and Phthalates:

The percent recoveries for the surrogate were all within the project QC criterion of 40-120% recovery.

PCBs:

The percent recoveries for the PCB surrogate were all within the project QC criterion of 40-120% recovery except blank spike A processed with storm 1 samples (122%). The alternate surrogate was within the QC criterion.

PROJECT: Sinclair and Dyes Inlet Storm Water Study – Storm Season 2005 Dyes Storms 1, 2, Makeup

Event, and Wet Season Baseflow

PARAMETER: Organics – PAH, Phthalates and PCBs

LABORATORY: Battelle Marine Sciences Laboratory, Sequim, Washington

MATRIX: Storm Water (zero or negligible salinity)

SAMPLE CUSTODY AND PROCESSING: Battelle received storm water samples collected during the 2005 Dyes Inlet storm events. The events included storm 1, storm 2, storm 3 (Makeup Event BI-SBC), and Wet Season Baseflow. Samples from Dyes Storm 1 were received on 03/27/05. Samples from Dyes Storm 2 were received on 04/01/05. Samples from the Wet Season Baseflow sampling were received on 03/31/05. Samples for the BI-SBC Makeup Event were received on 04/11/05. All samples were received in good condition. Select samples from each event were composited at MSL by either flow proportioning or equal proportioning of discrete samples.

Samples were assigned a Battelle Central File (CF) identification number (2318) and were entered into Battelle's sample tracking system.

The following lists information on sample receipt and processing activities:

EVENT	Composite Collection Date	Laboratory Arrival Date	Extraction Date	PAH/ Phthalate Analysis Date	PCB Analysis Date
Dyes Storm 1	03/27/05	03/27/05	03/29/05	04/30/05, 05/01/05	05/02/05, 05/03/05
Dyes Storm 2	04/01/05	04/01/05	04/05/05	05/01/05	05/03/05
Wet Season					
Baseflow	03/31/05	03/31/05	04/05/05	05/01/05	05/03/05, 05/04/05
Makeup Event	04/11/05	04/11/05	04/13/05	05/01/05	05/03/05

QA/QC PROJECT DATA QUALITY OBJECTIVES:

	Analytical	Reporting	MS Range of	Laboratory Control Sample	Surrogate Spike
Analyte	Method	Limits (ng/L)	Recovery		Recovery
PAH	GC-MS	20	40-120%	40-120%	40-120%
Phthalates	GC-MS	40	40-120%	40-120%	40-120%
PCB Congeners	GC-ECD	2	40-120%	40-120%	40-120%
Aroclor 1268	GC-ECD	40	40-120%	40-120%	40-120%

METHODS:

All samples were extracted and analyzed in accordance with the following Battelle methods:

- o <u>MSL-O-010</u> Extraction and Cleanup of Water for Semivolatile Organics Following the Surrogate Internal Standard Method.
- o <u>MSL-O-008</u> Operation and Maintenance of Gas Chromatographs (GC) and Gas Chromatograph/Mass Spectrometer (GC/MS) Systems.
- MSL-O-015 Identification and Quantification of Polynuclear Aromatic Hydrocarbons by Gas Chromatography/Mass Spectrometry Following EPA Method 8270B Quality Control Criteria.
- MSL-0-016 Analysis of PCBs and Chlorinated Pesticides by Gas Chromatography with Electron Capture Detection Following EPA METHOD 8080A Quality Control Criteria.

Results are reported as not blank corrected in units of ng/L for each sample.

HOLDING TIMES: Established holding times of 7 days from collection for the extraction procedure and 40

days from extraction for the analyses were achieved for all samples.

DETECTION LIMITS: Detection limits were determined on a per sample basis and data are flagged (U) using

sample specific MDLs. Reporting limits (RL) were established based on a low standard concentration and data are flagged (J) to identify concentrations less than the RL but

greater than the MDL.

DATA QUALIFIERS: U Not detected at or above MDL, sample specific MDL reported

J Concentration less than RL but greater than MDL

E Estimate

& Spiked sample outside control limits of 40-120% recovery; precision <30%

B Sample concentration is <10x blank

* Associated Surrogate recovery exceeds control limit (flag applied to samples)

Surrogate recovery outside control limits (40-120% - flag applied to surrogate)

ANALYTICAL NOTE: Sample T1308 Dyes Storm 2 BI-SBC was lost during the extraction processes due to

broken glassware.

METHOD BLANK: *PAHs and Phthalates:*

Three method blanks were extracted and analyzed with the stormwater samples. The blank for each batch of samples was less than the RL for all PAH compounds. The three phthalate compounds were detected in the blank. The phthalate data are flagged

as estimates and data usage should be limited to research evaluation. *PCBs*:

Three method blanks were extracted and analyzed with the stormwater samples. The

blank for each batch of samples was less than the RL for all PCBs.

LABORATORY CONTROL SAMPLE/BLANK SPIKE RECOVERY: **PAHs**

Five blank spikes were extracted and analyzed with this batch of samples. Blank spike samples were within the QC criterion of 40-120% for all PAH compounds except the 2-methyl naphthalene (37%), fluoranthene (121%), pyrene (496%), benz[a]anthracene (124%)., benzo[b]fluoranthene (127%), benzo[k]fluoranthene (122%), benzo[a]pyrene (339%), indeno[1,2,3-c,d]pyrene (127%), and benzo[g,h,i]perylene (126%). The spikes for pyrene and benzo[a]pyrene were high due to a peak overlap on the chromatogram.

The instrument was inspected for carry over problems.

Phthalates

Five blank spikes was extracted and analyzed with this batch of samples. Due to the variable method blanks a majority of the blank spikes for the phthalate compounds were outside the QC criterion. The data are all flagged as estimated and data usage should be limited to research evaluation.

PCBs:

Five blank spikes was extracted and analyzed with this batch of samples. Congeners with a percent recovery outside the project QC criterion of 40-120% were flagged. All PCB congeners for blank spike C recovered high and are attributed to a spiking error. All recoveries for the other four blank spikes, except one spike (PCB180 at 158%), meet the method QC criterion of 50-150% recovery.

MATRIX SPIKE PAHs

RECOVERY: Two sets of matrix spike (MS) and matrix spike duplicate (MSD) samples were

extracted and analyzed with this batch of samples. The percent recoveries outside the project QC criterion of 40-120% were flagged. A majority of the percent recoveries

meet the method QC criterion of 50-150% recovery.

MATRIX SPIKE RECOVERY conti.:

Phthalates

A majority of the matrix spike recoveries for the phthalate compounds were outside the QC criterion. The data are all flagged as estimated and data usage should be limited to research evaluation.

PCBs:

Two sets of matrix spike (MS) and matrix spike duplicate (MSD) samples were extracted and analyzed with this batch of samples. PCB congeners outside the project QC criterion of 40-120% were flagged. A majority of the recoveries fall within the method QC criterion of 50-150% recovery.

LABORATORY PRECISION:

Laboratory precision was expressed as the relative percent difference (RPD) between the matrix spike duplicates and the laboratory duplicates.

PAHs and Phthalates:

The RPD values for the matrix spike duplicate were within the QC criterion of RPD ≤30% for all PAH and phthalate compounds. The RPD values for the laboratory duplicates were within the QC criterion for all PAH compounds. Several phthalate compounds were outside the QC criterion and are flagged.

PCBs:

The RPD values for the matrix spike duplicate were within the QC criterion of RPD ≤30% for all PCB congeners except PCB180 (68%). PCB congeners for the laboratory duplicate were not detected above the RL.

SURROGATE RECOVERIES:

Surrogates compounds were used to evaluate the recovery of the extraction and clean-up process for the PAHs, phthalates, and PCB congeners.

PAHs and Phthalates:

The percent recoveries for the surrogate were within the project QC criterion of 40-120% recovery with the exception of one surrogate for Storm 1 blank spike B (122%) and two surrogates for Storm 2 blank spike A (126% and 129%). The alternate surrogates were within the QC criterion.

PCBs:

The percent recoveries for the PCB surrogate were all within the project QC criterion of 40-120% recovery except sample T1322 for PCB103 (38%). The alternate surrogate was within the QC criterion.

Sample Custody Records: 2005 Storm Water Organic Contaminants

- Chain of Custody
- Login Checksheets
- Battelle Sample Login

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Proje	ct Nan	ne: TMDL in Sinclai	r & Dyes	Inlets					<u>AS</u>	<u> 8 P</u>	ER	T/	\BL	E	<u>2-1</u>	IN	1 Q	AP	<u>P</u>					Address:			equim Bay l A 98382	Road
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Project Mar	nager: Martin C. Mille	er																			Attention:	Jill Brande	enbe	erger		_
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Project No.: 43043		Sequim, Washington 98382 Laboratory: Battelle MSL
Project Name: TMDL in Sinclair & Dyes Inlets		Address: 1529 W. Sequim Bay Road Sequim, WA 98382
Project Manager: Martin C. Miller		Attention: Jill Brandenberger
Phone: (360) 681-3668	Testing Parameters	Observations, Instructions
Lab. Use only: Collection Lab.ID: Sample ID Date/Time Matrix	X Hardness X Total Suspended Solids X LISST X Nitrate+Nitrite X Total Phosphorus X Total Phosphorus X TAN X Ammonia X TOC X Ammonia X TOC X Ammonia X TOC X TOC X Total Metals X Total Metals X Total Metals X Total Metals X Dissolved Metals X Total Mecury Organics	StationID Storm# Grab# Flow (CFS)
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Printed Name Company		Sample Disposition:
Relinquished by: 1/8/05 1646	Received by:	Distribution:
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COC Number: **CHAIN OF CUSTODY FORM** Page: of 9 Project No.: 43043 Date: Laboratory: Battelle MSL Project Name: TMDL in Sinclair & Dves Inlets Sample Team: Whitney, Walpole, Beckwith (PSNS) Address: 1529 W. Seguim Bay Road Analyze parameters per Table 2-1 in ENVVEST QAPP Observations, Instructions Solid Cruise or Battelle contain OSAL (ocean Salinity) Total Phosphorus Total Suspended Dissolved Metals Nitrate+Nitrite otal Mercury **Fotal Metals** Total Solids Organics Alkalinity Lab. Use LISST φ only: Collection 70C 000 Š. 뫈 _ab ID Date/Time Sample ID Matrix StationID Storm# % Full Jar# 132/133 M4100 2/9/2005 07430 AN H2O 2005ENV01 95 M4100SAL 2/9/2005 0743 AM H20 P3 2005ENV01 95 Х 1 134/135 M4101 2/9/2005 0805 AM H2O х P2 2005ENV01 95 M4101SAL 2/9/2005 0805 AM H2O P2 2005ENV01 95 Х 136/137 M4102 2/9/2005 0805 AM H2O P2 DUP 2005ENV01 x x 95 M4102SAL 2/9/05 1313 PM H2O P2 DUP 2005ENV01 95 Χ: 138/139 M4103 2/9/2005 0841 AM H2O Х P1 2005ENV01 95 1 M4103SAL 2/9/2005 0841 AM H2O 2005ENV01 95 x 140/141 M4104 2/9/2005 0930 AM H2O M4 2005ENV01 95 x x M4104NUTSHG2/9/2005 0930 AM H20 M4 2005ENV01 95 M4104SAL 12/9/2005 0930 AM H20 M4 2005ENV01 95 Х 142/143 M4105 2/9/2005 0951 AM H2O x x M3.3 2005ENV01 95 M4105SAL 2/9/2005 0951 AM H2O M3.3 95 Χİ 1 2005ENV01 144/145 M4106 2/9/2005 1015 AM H2O SN12 2005ENV01 95 $x \mid x$ M4106SAL 2/9/2005 1015 AM H2O Х SN12 2005ENV0 95 146/147 M4107 2/9/2005 1030 AM H20 **BJ-EST** 2005ENV0 95 x x M4107SAL 2/9/2005 1030 AM H20 BJ-EST 2005ENV01 95 144/149 M4108 2/9/2005 1054 AM H2O x x M3.1 2005ENV01 95 M4108NUTSHG2/9/2005 1054 AM H20 95 M3.1 2005ENV01 $x \mid x$ 2/9/2005 1054 AM H2O M4108SAL M3.1 2005ENV0 95 х 1 150/151 M4109 2/9/2005 1201 PM H2O lχ х M6 2005ENV01 95 lх M4109NUTSHG2/9/2005 1201 PM H2O x 95 M6 2005ENV01 M4109SAL 2/9/2005 1201 PM H2O 2005ENV01 95 Х M6 152/153 M4110 2/9/2005 1110 AM H20 x DY01 2005ENV01 95 x M4110SAL 2/9/2005 1110 AM H2O DY01 2005ENV01 95 х 154/155 M4112 2/9/2005 0914 AM H2O ĺχ х PL01 2005ENV01 95 M4112SAL 2/9/2005 0914 AM H20 Х PL01 2005ENV01 95 156/157 M4113 2/9/2005 1045 AM H20 PL02 2005ENV01 95 х х M4113SAL 2/9/2005 1045 AM H20 Х PL02 2005ENV01 95 158/159 M4114 2/9/2005 1225 PM H2O lχ х PL03 2005ENV01 95 M4114SAL 2/9/2005 1225 PM H2O PL03 2005ENV01 95 х Received by: 30 Relinguished by Total # of Containers 1610 2/01/04 Shipment Method: Special Requirements or Conditions: Signature Signature im Branden betyer Printed Name Company Printed Name Sample Disposition: Relinquished by: Received by: Distribution: 1) 2 copies to the Laboratory Signature Date Time Signature Date Time 2) 1 copy to project manager 3) Return completed original to

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COC Number: CHAIN OF CUSTODY FORM Page: of 9 Project No.: 43043 Date: Laboratory: Battelle MSL Sample Team: Whitney, Walpole, Beckwith (PSNS) Project Name: TMDL in Sinclair & Dyes Inlets Address: 1529 W. Sequim Bay Road Analyze parameters per Table 2-1 in ENVVEST QAPP Observations, Instructions Solids No. of **Battelle** containe Cruise or OSAL (ocean Salinity) Total Phosphorus Total Suspended Dissolved Metals Lab Nitrate+Nitrite Total Mercury Use Total Metals Total Solids only Hardness Ammonia Organics NUTRIENTS Alkalinity LISST DOC Collection 700 Lab Нg IDDNE Sample ID Date/Time StationID Matrix Storm# Jar# % Full 2/9/2005 1301 PM M4100-TS H20 2005ENV01 Х Х P3 95 M4101-TS 2/9/2005 1313 PM H20 Х Х P2 2005ENV01 95 2/9/05 1313 PM 2005ENV01 Х P2 DUP 95 M4102-TS H20 Х 2/9/2005 0841 AM H20 2005ENV01 95 M4103-TS х Х P1 2/9/2005 0930 AM 2005ENV01 95 M4104-TS H20 Х Х M4 M4105-TS 2/9/2005 0951 AM H2O Х 2005ENV01 95 Х 1 M3.3 2/9/2005 1015 AM 2005ENV01 H20 Х Х 95 M4106-TS SN12 2/9/2005 1030 AM 2005ENV01 H20 Х Х **BJ-EST** 95 M4107-TS 95 M4108-TS 2/9/2005 1054 AM H20 Х Х M3.1 2005ENV01 2/9/2005 1201 PM 2005ENV01 M4109-TS H20 х Х 1 M6 95 2/9/2005 1110 AM Х 2005ENV01 95 H20 х DY01 M4110-TS M4112-TS 2/9/2005 0914 AM Х Х PL01 2005ENV01 95 H20 1 2/9/2005 1045 AM H20 Х Х PL02 2005ENV01 95 M4113-TS Х 2005ENV01 2/9/2005 1225 PM PL03 95 M4114-TS H20 lχ Received by: Total # of Containers 14 Relinguished by: 1610 IM Briece Shipment Method: Signature Date Tir Special Requirements or Conditions: Signature Janbrandenberger Sample Disposition: Printed Name Printed Name Company Company Received by: Distribution: Relinquished by: 1) 2 copies to the Laboratory 2) 1 copy to project manager Signature Date Time Signature Date Time 3) Return completed original to **Battelle Marine Sciences Laboratory** Printed Name Company Company Printed Name

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Cooler Temp 6.0°C Cooler Temp 5.9°C Cooler Temp 5.6°C

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SAMPLE CHAIN OF CUSTODY FORM

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Battelle Marine Sciences Laboratory

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Project Ma	nager: Martin C. Mille																		Attention:	Jil	Brand	dent	perge								
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Date: 4/2/05 Marine Sciences Laboratory Page: 1529 West Seguim Bay Road COC Number: Sequim, Washington 98382 Project No.: 43043 Laboratory: Battelle MSL 1529 W. Seguim Bay Roac Address: Project Name: TMDL in Sinclair & Dyes Inlets As Per Table 2-1 in QAPP Sequim, WA 98382 Project Manager: Martin C. Mille Attention: Jill Brandenberge Phone: (360) 681-3668 **Testing Parameters** Observations, Instruction: Solids Total Phosphorus Total Suspended Dissolved Metals of containers Nitrate+Nitrite Total Mercury Total Metals Total Solids Hardness Ammonia **Alkalinity** Lab. Use 200 only: Collection KN 2 ģ Lab ID Sample ID Date/Time Matrix StationID Storm# Jar# %Full 3|31 05 2157 W T1310-A CC 2005Mar312 100 T1310-B 4/1/05 0357 W CC 2 100 41105 0957 W T1310-C CC 3 20 T1310-D eccomposite OME TME TBIO XXX XXXX 399 400 Received by: Total # of Containers 1500 1500 Shipment Method: Date Time Signature C. Susuin Special Requirements or Conditions: Date Time MSL Printed Name Company Printed Name Sample Disposition: Company Relinquished by: Received by: Distribution: 1) 2 copies to the Laboratory Signature Date Time Signature 2) 1 copy to project manager Date Time 3) Return completed original to Printed Name Company **Battelle Marine Sciences Laboratory** Printed Name Company

SAMPLE CHAIN OF CUSTODY FORM

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Project Ma	nager: Martin C. Mille	eı																				Attention:	Jill Brande	enberge	
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Date: Marine Sciences Laboratory Page: 1529 West Sequim Bay Road COC Number: Sequim, Washington 98382 Project No.: 43043 Laboratory: Battelle MSL Address: 1529 W. Seguim Bay Roac As Per Table 2-1 in QAPP Project Name: TMDL in Sinclair & Dyes Inlets Sequim, WA 98382 Project Manager: Martin C. Miller Attention: Jill Brandenberge **Testing Parameters** Phone: (360) 681-3668 Observations, Instruction: Total Suspended Solids Total Phosphorus Dissolved Metals of containers Nitrate+Nitrite Total Mercury Total Metals Total Solids Ammonia Hardness Alkalinity Lab. Use LISST 200 Collection 20 only: TKN ġ Lab ID Date/Time Sample ID Matrix StationID Storm# Jar# %Full T1312-A 3 31 05 1819 W CH 2005Mar312 100 T1312-B 4/1/05 0019 W CH 2 100 0619 W T1312-C CH シ 3 70 T1312-D CH composite TME OME XXXXXXXXXXX 403 404 Relinquished by: Received by: Total # of Containers HILOS 1500 1500 Shipment Method: Date Time Signature Date Time Special Requirements or Conditions: SUSLICE MSL TEC **Printed Name** Sample Disposition: Company Printed Name Company Relinquished by: Received by: Distribution: 1) 2 copies to the Laboratory Signature Date Time Signature Time 2) 1 copy to project manager Date 3) Return completed original to

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SAMPLE CHAIN OF CUSTODY FORM

Battelle Marine Sciences Laboratory

Marine Sciences Laboratory Page: 1529 West Sequim Bay Road COC Number: Sequim, Washington 98382 Project No.: 43043 Laboratory: Battelle MSL Address: 1529 W. Sequim Bay Roac Project Name: TMDL in Sinclair & Dyes Inlets As Per Table 2-1 in QAPP Sequim, WA 98382 Project Manager: Martin C. Miller Attention: Jill Brandenberge Phone: (360) 681-3668 **Testing Parameters** Observations, Instruction: Total Suspended Solids Total Phosphorus Dissolved Metals of containers Nitrate+Nitrite Total Mercury Total Metals Total Solids Hardness Ammonia Lab. Use LISST only: Collection 50 200 X ġ Lab ID Date/Time Sample iD Matrix StationID Storm# Jar# %Full T1313-A 3/31/05 2036 W SW6 2005/Nav 312 1 100 T1313-B 3/31/05 2336 W SW₆ 2 100 T1313-C 0236 W 105 SW₆ 3 100 T1313-D 05 0536W SW6 4 100 T1313-E 0836 W SW₆ 5 65 T1313 F SW6 ф T1313-Q ₩-SW6 T-1313-H-¥ SW6 Composite TME DME ORG T 1313 392 445 291 Received by: Total # of Containers 4/105 1500 1500 Shipment Method: Date Time Special Requirements or Conditions: Signature Date Time SUSLICE TEC MSL Printed Name Company **Printed Name** Sample Disposition: Company Relinquished by: Received by: Distribution: 1) 2 copies to the Laboratory Signature Date Time Signature 2) 1 copy to project manager Date Time Return completed original to Printed Name Battelle Marine Sciences Laboratory Company Printed Name Company

SAMPLE CHAIN OF CUSTODY FORM

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Project Manager: Martin C. Miller Attention: Jill Brandenberge					
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LOG-IN CHECKLIST Reference SOP# MSL-A-00
Central File #: New 2318 Sample No(s): 1-and 3 Project Manager: JMB
TO BE COMPLETED BY PROJECT MANAGER (prior to arrival when possible)
Matrix: Western WP# F55746 Yes No Navy-type Project (requires high-level sample tracking procedures) Filter Samples: Amount: Entire sample Half of sample Freeze dry sample(s) - samples will be weighed and placed in ultralow temp freezer (Lab# 130) Special instructions: Composite and aliquot for ORG / MET Sample Preservation Instructions: MET = 0.290 HNO3 Date To Archive: Date To Dispose:
TO BE COMPLETED UPON SAMPLE ARRIVAL/LOG-IN
Yes No N/A Indicate in Appropriate Box
Was a custody seal present?
Was the custody seal intact?
Was cooler(s) temperature(s) within acceptable range of 4±2°C? 4.2 °C (if multiple coolers, note temp. of each)
Was Project Manager notified of any custody/login discrepancies (cooler temp, sponsor codes, et
Were samples filtered at MSL?
Sample condition(s): Acceptable Other (explain):
Container type: Teflon Poly Glass) Spex Other:
Notes:
Completed By: 10/3/04 1630
SAMPLE PRESERVATION
Sample(s) were preserved at MSL
Sample(s) were preserved prior to arrival at MSL (noted on CoC / Sample / per PM Instruction)
Random pH checked for ~10% of samples (use dip paper) Sample IDs:
Complete pH check required for project (use pH meter and record on pH Record form)
If preservation necessary, record Acid Lot#
Type: 0.2% HNO3 Notes: 1203030
0.5% HCl (Hg samples) Notes:
Refrigerate/Freeze Notes:

Notes:

Date/Time: 12/3/04 1630

Central File #: 23 (8 Sample No(s): 4-71 Project Manager: J, BRANDEN BERGER
TO BE COMPLETED BY PROJECT MANAGER (prior to arrival when possible)
Matrix: Stormwester WP# F85746
Yes No
Navy-type Project (requires high-level sample tracking procedures)
Filter Samples: Amount: Entire sample Half of sample
Freeze dry sample(s) - samples will be weighed and placed in ultralow temp freezer (Lab# 130)
Special instructions: Composite
Sample Preservation Instructions: 0.2% HNO3
Date To Archive: Date To Dispose:
TO BE COMPLETED UPON SAMPLE ARRIVAL/LOG-IN
Yes No N/A Indicate in Appropriate Box
Was a custody seal present?
Was the custody seal intact?
(if multiple coolers, note temp. of each) Was cooler(s) temperature(s) within acceptable range of 4±2°C? See back °C °C
Was Project Manager notified of any custody/login discrepancies (cooler temp, sponsor codes, etc)?
Comment/Remedy:
Were samples filtered at MSL?
West Samples Time ed at MOL?
Sample condition(s): Other (explain):
Contained to the Contained
Container type: Teflon Poly Glass Spex Other:
Notes:
Completed By: INVICUAL Date/Time: 1/18/05 1645
SAMPLE PRESERVATION
Sample(s) were preserved at MSL
Sample(s) were preserved prior to arrival at MSL (noted on CoC / Sample / per PM Instruction)
Random pH checked for ~10% of samples (use dip paper) Sample IDs:
Complete pH check required for project (use pH meter and record on pH Record form)
If preservation necessary, record Acid Lot# Type: \(\times \) 0.2% HNO3 \(\times \) Notes: \(\times \) \(
<u> </u>
0.5% HCl (Hg samples) Notes:
Refrigerate/Freeze Notes:
Other Notes:
Completed By: Record Date/Time: 1/18/05 23:00
8000 K4A (14-19, 79-31,42-47, 57-59)
Revsed 031303
Ly (4, Page 1830; 284-38, 69+70)

(cooler#1	Tempo Jars
2	\. 7
3	1.3
4 ***	2.1
	1.5
6	7.5
7	3.4
8	1.6
9	5,3
(0)	3.1
	1.5
12	3.2
13	2.
14	1.2
15	2.2
16	1.2
۱۶	1.2
18	1.5
19	1.3
70	1.3
21	1-4
72	Z.\
23	

SINCLAIR STORM

LOG-IN CHECKLIST Gorst Event 2 131 Reference SOP# MSL-A-001
Central File #: 23 18 Sample No(s): 72-127 Project Manager: J. BRANT ENBERGER
TO BE COMPLETED BY PROJECT MANAGER (prior to arrival when possible)
Matrix: WP#
Navy, type Project (requires high-level sample tracking procedures)
Filter Samples: Amount: Entire sample Half of sample
Freeze dry sample(s) - samples will be weighed and placed in ultralow temp freezer (Lab# 130)
Special instructions: Composite
Sample Preservation Instructions: 0.2% HAO3
Date To Archive: Date To Dispose:
TO BE COMPLETED UPON SAMPLE ARRIVAL/LOG-IN
Yes No N/A Indicate in Appropriate Box
Was a custody seal present?
Was the custody seal intact?
Was cooler(s) temperature(s) within acceptable range of 4±2°C? See back of sheet °C (if multiple coolers, note temp. of each)
Was Project Manager notified of any custody/login discrepancies (cooler temp, sponsor codes, etc)? Comment/Remedy:
Were samples filtered at MSL?
Sample condition(s): Other (explain):
Comer (explain)
Container type: (eflon Poly Glass Spex Other:
Notes:
Completed By: /m/bravalle for RW Date/Time: 1/30/05
SAMPLE PRESERVATION
Sample(s) were preserved at MSL
Sample(s) were preserved prior to arrival at MSL (noted on CoC / Sample / per PM Instruction)
Random pH checked for ~10% of samples (use dip paper) Sample IDs:
Complete pH check required for project (use pH meter and record on pH Record form)
If preservation necessary, record Acid Lot#
Type: > 0.2% HNO3 Notes: OPTIMA LOTAT 1203080
0.5% HCI (Hg samples) Notes:
Refrigerate/Freeze Notes:
Other Notes:
Completed By: 123/05 16:00
Storage LSC (#72-78,80-89,93-96,)
Completed By:

ENVIEST Marine 1 1200501

Reference SOP# MSL-A-001

Central File #: 2318 Sample No(s): 132 - 159 Project Manager: This
TO BE COMPLETED BY PROJECT MANAGER (prior to arrival when possible)
Yes No WP#
Navy, type Project (requires high-level sample tracking procedures)
Filter Samples: Amount: Entire sample Half of sample
Freeze dry sample(s) - samples will be weighed and placed in ultralow temp freezer (Lab# 130)
Special instructions: Split for poc/Toc.
Sample Preservation Instructions: O. 2 % HWO2 Date To Archive: Date To Dispose:
TO BE COMPLETED UPON SAMPLE ARRIVAL/LOG-IN
Yes No N/A Indicate in Appropriate Box
Was a custody seal present?
Was the custody seal intact?
Was cooler(s) temperature(s) within acceptable range of $4\pm2^{\circ}C$? 5.0 and 4.5 °C (if multiple coolers, note temp. of each)
Was Project Manager notified of any custody/login discrepancies (cooler temp, sponsor codes, etc)?
Comment/Remedy:
Were samples filtered at MSL?
Sample condition(s): (Cceptable Other (explain):
Contained to the Contain
Contract of the contract of th
Notes:
Completed By: 100 Date/Time: 2/9/05 1610
SAMPLE PRESERVATION
Sample(s) were preserved at MSL
Sample(s) were preserved prior to arrival at MSL (noted on CoC / Sample / per PM Instruction)
Dandom mid should for 100% of
Complete pH check required for project (use pH meter and record on pH Record form)
Type: 0.2% HNO3 Notes: Optima Lot # 1203080
0.5% HCI (Ha comples)
Refrigerate/Freeze Notes:
Other Notes:
Completed By: 1010 Date/Time: 2/9/05 1010 2/10/05
OF NWOOD FIDEOS

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storage: 1302-152 K6C 153-159 J3D Storm Water Data Report

LOG-IN CHECKLIST

SO/Inlet FYOS Storm 3 - Sinclair 1

	No(s): 160 - 235	Project Manager:	MB
TO BE COMPLETED BY PROJECT MAN		21 21 21 21 21 21 21 21 21 21 21 21 21 2	
Matrix: water Yes No	W	P# F55746	
	res high-level sample tracking	procedures)	
Filter Samples: Amou			popular (ACA) Propular (ACA)
Freeze dry sample(s) - sa		ced in ultralow temp freezer (L	A 10
Special instructions:	Composite	,	,
Sample Preservation Instructions:			
Date To Archive:	Date To Dispo		
		se:	
TO BE COMPLETED UPON SAMPLE	· · · · · · · · · · · · · · · · · · ·	•	
Yes No N/A Indicate in Appro			
Was a custody sea	•		
Was the custody s	ieal intact?		
	perature(s) within acceptabl	e range of 4±2°C?	°C
	rs, note temp. of each)		°C
Was Project Mana Comment/Reme	ger notified of any custody/	login discrepancies (cooler temp	, sponsor codes, etc):
	·		
	custody forms signed and da	ted?	
Were samples filter	ered at MSL?		
Sample condition(s):	able Other (explo	in):	
Service Control of th	Triple Res		
Container type:	Poly Glass Spex	Other:	
Notes:			
Completed By: Amm		Date/Time: 3/2/05	0930
77.110		Date/Time: 312105	0130
SAMPLE PRESERVATION			
Sample(s) were preserved at MSL			
Sample(s) were preserved prior to	arrival at MSL (noted on CoC	/ Sample / per PM Instruction)
Random pH checked for ~10% of so		Sample IDs:	,
			·
Complete pH check required for pro		rd on pH Record form)	
If preservation necessary, record Acid Lo Type: 0.2% HNO3		120	> C - :
		MA COTH 120.	1040
0.5% HCl (Hg samples)	Notes:		
Refrigerate/Freeze	Notes:		
Other	Notes:		
Completed By: Karage	l Floor B # (1)	Date/Time: 3/2/05	17:50
<u> </u>	l Flower 15 #	(84 >203	
durage !	. Floor B #(oO -> 183	
vsed 031303 Page 188 of 224	L Ploot C #	227-> 23/2005 Storm	n Water Data Repo
•	1 17 mm - W 42	WP-7771	-1

```
Coolers for SD/Inlet FYOS Storm 3
        Cooler 10
temp
        KAR-WWTP- Grab 1-3
 4.9
        B-WWTP- Grabs Samples 1-3
  1.1
        B-st28 Jars 1-3
  1.7
  2.2
         Grobs WS-DOT IA
                      2
        PSNS 015, JWB617/PSNS 124 Jars 1 & 2
  1.2
         PSNS 124 Jar 7 only PSNS 126 Jars 1-3
   1.7
        303
   1,3
        PNS 124 Jars 3-6
   18
        PSUS Jar 3,4,5
        B-st/CS016 Jars 6 27/PSNS 015 Jars 1 & 2
        B-st 28 Vars 4,6,8 B-St/CSO16 Jar 1
  2.9
       Cooler #58
   2.0 BL Jar 4/OC Jars 1-3
   1.4 B-st/CSOK Jars 2.5
```

LOG-IN CHECKLIST

Fyo5 sinclair storm 2

Central File #: 2318 Sample No(s): 247	-320 Project Manager: JMR
TO BE COMPLETED BY PROJECT MANAGER (prior to	
Matrix: water Yes No	WP#
Yes No Navy,type Project (requires high-level s	ample tracking procedures)
Filter Samples: Amount.	Entire sample Half of sample
The second section of the section of the s	eighed and placed in ultralow temp freezer (Lab# 130)
	posite, split
	To HNO2 for metals
	Date To Dispose:
Yes No N/A Indicate in Appropriate Box	<u>// // // // // // // // // // // // // </u>
Was a custody seal present?	
Was the custody seal intact?	
Was cooler(s) temperature(s) with (if multiple coolers, note temp. (
	any custody/login discrepancies (cooler temp, sponsor codes, etc)?
Comment/Remedy:	any custody/login discrepancies (cooler temp, sponsor codes, etc)?
	signed and dated?
Were samples filtered at MSL?	
(A) (A) (A) (A) (A) (A) (A) (A) (A) (A)	Control of the control of the same of the
Sample condition(s): Acceptable	Other (explain):
Container type: (Feflow Poly) (Glass)	Spex Other:
Notes:	
Completed By: Mrane	Date/Time: 3/21/05 1911
SAMPLE PRESERVATION	
Sample(s) were preserved at MSL	
Sample(s) were preserved prior to arrival at MSL	
Random pH checked for ~10% of samples (use dip	
Complete pH check required for project (use pH m	eter and record on pH Record form)
If preservation necessary, record Acid Lot#	< 5
Type: 2 0.2% HNO3 Notes:	OPTIMA Nitric Coloff 120300
0.5% HCl (Hg samples) Notes:	<u> </u>
Refrigerate/Freeze Notes:	.•
Other Notes:	
Completed By:	Date/Time: 3 21 05 17:00
torage: 2318(239-259) 120	3/2/05 09:30
sed 031303 Page 190 of 323 (8 (280 - 290) KIA	7318 (316-3009 Storm Water Data Report

LOG-IN C	HECKLIST
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T FYOS SID Inlet Dyes Storm 1

Central File #: 2318 Sample No(s): 321-387, 371-389 roject Manager: 7mm3
TO BE COMPLETED BY PROJECT MANAGER (prior to arrival when possible)
Matrix: Water WP#
Navy, type Project (requires high-level sample tracking procedures)
Filter Samples: Amount: Entire sample Half of sample
Freeze dry sample(s) - samples will be weighed and placed in ultralow temp freezer (Lab# 130)
Special instructions: composite/split
Sample Preservation Instructions: metals 0.2% HADZ
Date To Archive: Date To Dispose:
TO BE COMPLETED UPON SAMPLE ARRIVAL/LOG-IN
Yes No N/A Indicate in Appropriate Box
Was a custody seal present?
Was the custody seal intact?
Was cooler(s) temperature(s) within acceptable range of 4±2°C? See COCs °C
(if multiple coolers, note temp. of each) °C
Was Project Manager notified of any custody/login discrepancies (cooler temp, sponsor codes, etc)? Comment/Remedy:
Were samples filtered at MSL?
Sample condition(s): Other (explain):
Container type: (Teflon Poly Glass Spex Other:
Notes:
140Tes.
Completed By: 1302 Date/Time: 3/27/05 1302
7 300
SAMPLE PRESERVATION
Sample(s) were preserved at MSL
Sample(s) were preserved prior to arrival at MSL (noted on CoC / Sample / per PM Instruction)
Random pH checked for ~10% of samples (use dip paper) Sample IDs:
Complete pH check required for project (use pH meter and record on pH Record form)
If preservation necessary, record Acid Lot#
Type: X 0.2% HNO3 Notes: OP, HA COH 1203080
0.5% HCl (Hg samples) Notes:
Refrigerate/Freeze Notes:
Other Notes:
Completed By: Kalend Date/Time: 3/27/05 17:70
Strange 1 JIC (321-324, 327-334, 337-33°
Storage 1 310 (321-324, 327-334, 337-336) Page 191 of 224 TIB (340, 2905 Stolim Water Data Report

marine 4 (pyes of storm)

LOG-IN CHECKLIST

Central File #: 2318 Sample No(s): 343-370 Project Manager: J. BRANDEN BERGER.	
TO BE COMPLETED BY PROJECT MANAGER (prior to arrival when possible)	
Matrix: Seawater WP#	
A CONTRACT OF CONT	
Special instructions: Split / filter / preserve	
Sample Preservation Instructions: 0.2% HNO3	
Date To Archive: Date To Dispose:	
TO BE COMPLETED UPON SAMPLE ARRIVAL/LOG-IN	
Yes No N/A Indicate in Appropriate Box	
Was a custody seal present?	
Was the custody seal intact?	
Was cooler(s) temperature(s) within acceptable range of 4±2°C? see COC °C	
Was Project Manager notified of any custody/login discrepancies (cooler temp, sponsor codes, etc)? Comment/Remedy:	
_Were <u>all</u> chain of custody forms signed and dated?	
Were samples filtered at MSL?	
Sample condition(s): Acceptable Other (explain)	
Construction (Construction)	
Container type: (Teflon Poly Glass Spex Other:	
Notes:	
Matrice Sea United By: PROJECT MANAGER (prior to arrival when possible) Matrice Sea United Type Matrice Sea United Type Matrice Sea United Type Matrice Sea United Type Matrice Sea United Type Matrice Sea United Type Matrice Sea United Type Matrice Sea United Type Matrice Sea United Type Matrice Sea United Type Matrice Sea United Type Matrice Sea United Type Matrice Sea United Type Matrice Sea United Type Matrice Sea United Type Matrice Sea United Type Matrice Sea United Type Matrice United	
Completed By: 1mBren Date/Time: 3/28/05 1411	
SAMPLE PRESERVATION	
Sample(s) were preserved at MSL	
Sample(s) were preserved prior to arrival at MSL (noted on CoC / Sample / per PM Instruction)	
Pandom pld should for 10% of the last	
Complete pH check required for project (use pH meter and record on pH Record form)	
Complete pH check required for project (use pH meter and record on pH Record form) If preservation necessary, record Acid Lot# Type: 10.3% HANGS	
Complete pH check required for project (use pH meter and record on pH Record form) If preservation necessary, record Acid Lot# Type: 20.2% HN03 Notes: DPT MA COLH (20 3080)	
Complete pH check required for project (use pH meter and record on pH Record form) If preservation necessary, record Acid Lot# Type: 7 0.2% HNO3 Notes: 5 PT MA COUNTY (20 30%) 0.5% HCl (Hg samples) Notes:	
Complete pH check required for project (use pH meter and record on pH Record form) If preservation necessary, record Acid Lot# Type: O.2% HNO3 Notes: OPT MA COUNTY (20 30%) O.5% HCl (Hg samples) Notes: Refrigerate/Freeze Notes:	
Complete pH check required for project (use pH meter and record on pH Record form) If preservation necessary, record Acid Lot# Type: O.2% HNO3	
Complete pH check required for project (use pH meter and record on pH Record form) If preservation necessary, record Acid Lot# Type: O.2% HNO3	
Complete pH check required for project (use pH meter and record on pH Record form) If preservation necessary, record Acid Lot# Type: O.2% HNO3	

LOG-IN CHECKLIST SO Inlet wet Season 2005

Select samples:

Central File #: 2318	Sample No(s): 453 -	-482, 504-511 Project	t Manager:	<i>fmrs</i>
TO BE COMPLETED BY PRO	JECT MANAGER (prior to	arrival when possible)		
Yes No	oject (requires high-level sa	WP#mple tracking procedures)		
Filter Sample Freeze dry sa Special instru	imple(s) - samples will be we ctions:	ighed and placed in ultralow to	Half of sample emp freezer (Lc	17. Newson
Sample Preservation Instr	uctions: <u>meta</u>	uls: 0.2% Haroz		
Date To Archive:		ate To Dispose:		
Was a Was t Was c (if m	nte in Appropriate Box custody seal present? he custody seal intact? coler(s) temperature(s) with	nin acceptable range of 4±2°C f each) any custody/login discrepancie	4.1	<u>°C</u>
Were:	samples filtered at MSL?			
Sample condition(s):	Acceptable	Other (explain):		
Container type:	Teflon Poly Glas	Spex Other:		
Notes: <u>Hand delive</u>	red by TEC			
Completed By: Impu		Date/Time:	3/31/05	1930
	ed prior to arrival at MSL (noted on CoC / Sample / per P	PM Instruction)
	~10% of samples (use dip p iired for project (use pH me	aper)	form)	
If preservation necessary, rec Type: 0.2% HNO3 0.5% HCl (Hg sc	Notes: _ mples) Notes: _	1203080	· · · · · · · · · · · · · · · · · · ·	
Other	Notes: _	-		
Completed By: /m//		Date/Time:	4/1/15	

ages Storm 2

LOG-IN CHECKLIST

Central File #: 2318 Sample No(s): 391-417 44 Project Manager: JMB
TO BE COMPLETED BY PROJECT MANAGER (prior to arrival when possible)
Matrix: Wet WP#
Navy, type Project (requires high-level sample tracking procedures)
Filter Samples: Amount: Entire sample Half-of-sample
Freeze dry sample(s) - samples will be weighed and placed in ultralow temp freezer (Lab# 130)
Special instructions:
Sample Preservation Instructions: Swie Buttles 2-3-4-5
Date To Archive: Date To Dispose: Swie Bitles 1-2-3 - [14]
TO BE COMPLETED UPON SAMPLE ARRIVAL/LOG-IN CC - BUHLS 1-2-3 2.00 BI-SEC
Yes No N/A Indicate in Appropriate Box B-ST12 Bottes 4,5 - 1.1 Bottes 3,4 (1.
Was a custody seal present? Ecology - 20
Was the custody seal intact? CH Bottle: 1-2-3 (1.1) BA Bottle: 1-2-32
TO BE COMPLETED UPON SAMPLE ARRIVAL/LOG-IN Ves No N/A Indicate in Appropriate Box Was a custody seal present? Was the custody seal intact? Was cooler(s) temperature(s) within acceptable range of 4±2°C? BI-SEC Bothus 1-2-3 CH Bothus 1-2-3 LI BA Bothus 1-2-3 BA Bothus 1-2-3 BST01-Grabis BST01-Grabis BST01-Grabis BST01-Grabis BST01-Grabis
C *C
Was Project Manager notified of any custody/login discrepancies (cooler temp, sponsor codes, etc)? Comment/Remedy:
Were samples filtered at MSL?
Sample condition(s): Acceptable Other (explain):
one (expan)
Container type: Teflon Poly Glass Spex Other:
Notes: all coolers Well packed in ice - if temps lowduce to ice content
3
Completed By: 41/05 1530
SAMPLE PRESERVATION
Sample(s) were preserved at MSL
Sample(s) were preserved prior to arrival at MSL (noted on CoC / Sample / per PM Instruction)
Random pH checked for ~10% of samples (use dip paper) Sample IDs:
Complete pH check required for project (use pH meter and record on pH Record form)
If preservation necessary, record Acid Lot#
Type: 0.2% HNO3 Notes: 0PT (MA COT # (7.03080
0.5% HCI (Hg samples) Notes:
Refrigerate/Freeze Notes:
Other Notes:
Completed By: 1. Coch Date/Time: 4205 12:15
Revsed 031303 Page 194 of 224 2005 Storm Water Data Report

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LOG-IN CHECKLIST Sindair Inlet make up Event July to deplicate and the superior of the superio
Central File #: 2318 Sample No(s): 453 - 455 Project Manager: JMR
TO BE COMPLETED BY PROJECT MANAGER (prior to arrival when possible)
Matrix: Stomwater WP#
Yes No Navy₁type Project (requires high-level sample tracking procedures)
Freeze dry samples will be weighed and placed in ultralow temp freezer (Lab# 130)
Special instructions: <u>composite</u> /split /preserve
Could be all a series of the s
Date To Archive: Date To Archive: Date To Dispose:
TO BE COMPLETED UPON SAMPLE ARRIVAL/LOG-IN Yes No N/A Indicate in Appropriate Box
Was a custody seal present?
Was the custody seal intact?
Was cooler(s) temperature(s) within acceptable range of 4±2°C? 4, 0 °C (if multiple coolers, note temp. of each)
Was Project Manager notified of any custody/login discrepancies (cooler temp, sponsor codes, etc)? Comment/Remedy:
Were samples filtered at MSL?
Sample condition(s): Acceptable Other (explain):
Container type: Teflon Poly Flas Spex Other:
Notes:
Completed By: 1055 1055
SAMPLE PRESERVATION
Sample(s) were preserved at MSL
Sample(s) were preserved prior to arrival at MSL (noted on CoC / Sample / per PM Instruction)
Dendempt to the state of the st
Random pH checked for ~10% of samples (use dip paper) Sample IDs:
Complete pH check required for project (use pH meter and record on pH Record form)
Type: S 0.2% HNO3 Notes: OPTIMA NITRIC COTTICO 3080
0.5% HCI (Hg samples) Notes:
Refrigerate/Freeze Notes:
Other Notes:
Completed By: Lewson Date/Time: 16500
Date/Time: 16500 notale 71 454 4558
Revsed 031303 Page 195 of 224 Date/Time: 4/11/05 16500 notale 71 454 4558 2005 Storm Water Data Report
V

Legend - FY05 Sinclair (CF# 2318) Login

TYPE CODE:

FC flow composite from ISSCO Samples

EC-I equal ratios composite of time composited ISSCO Samples

EC-G equal ratios composite of grab samples

G Grab sample

D Discrete sample collected from one jar of the time compositing ISSCO sampler

EM Event Mean

MATRIX CODE:

STW Stream Water
MW Marine Water

SW Stormwater Outfall

SED Sediment TISS Tissue

EB Equipment Blank Water

cc: Project Manager/Central File

Login File 2318

SAMPLE LOGIN (SOP# MSL-A-001)

Project Manager: Brandenberger Date Received: 12/03/04

Batch: 1

PROJECT: TMDL in Sinclair & Dyes Inlets

		BATTELLE					COLLECTION		
SPONSOR CODE	Site Description	CODE	MATRIX	Portion	STORAGE LOCATION	PARAMETERS REQUESTED	DATE	INITIALS	Type
BST12-RB*	BST12-RB	2318-1	EB	raw water	Prep Lab L-3-B	Total Metals, Hg	12/03/04	MLFM	EC-I
BST12-RB*	BST12-RB	2318-2	EB	filt. water	Prep Lab L-3-B	Dissolved Metals	12/03/04	MLFM	EC-I
BST12-RB*	BST12-RB	2318-3	EB	raw water	Outside Refrigerator	Organics	12/03/04	MLFM	EC-I

^{*}Composit of Samples BST12-RB-1,2,3 & 4. Made into one sample and divided into 3 samples (sample 2 being filtered), for the various analysis.

2318

SAMPLE LOGIN

(SOP# MSL-A-001)

Project Manager: Brandenberger Date Received: 01/19/05 Batch: 2

SPONSOR		BATTELLE					COLLECTION		
CODE	Station ID	CODE	MATRIX	Portion	STORAGE LOCATION	PARAMETERS REQUESTED	DATE	INITIALS	Type
T1100	LMK136	2318-4	SW	raw water	Prep Lab L-4-D	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	01/17/05	MLFM	FC
T1101	GC	2318-5	STW	raw water	Prep Lab L-4-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	01/17/05	MLFM	EC-I
T1102	GC-SAN	2318-6	STW	raw water	Prep Lab L-4-D	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	01/17/05	MLFM	EC-I
T1103	AC	2318-7	STW	raw water	Prep Lab L-4-D	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	01/17/05	MLFM	EC-I
T1104	LMK122	2318-8	SW	raw water	Prep Lab L-4-D	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	01/17/05	MLFM	FC
T1105	LMK038	2318-9	SW	raw water	Prep Lab L-4-D	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	01/17/05	MLFM	FC
T1106	PO-POBLVD	2318-10	SW	raw water	Prep Lab L-4-D	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	01/17/05	MLFM	FC
G1101	KAR-WWTP	2318-12	WWTP	raw water	Prep Lab L-4-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	01/17/05	MLFM	EC-G
G1103-A	AC-LOW	2318-14	STW	raw water	Prep Lab K-4-A	Al, Cu, Zn, Cd, Pb	01/17/05	MLFM	G
G1103-B	AC-LOW	2318-15	STW	raw water	Prep Lab K-4-A	Al, Cu, Zn, Cd, Pb	01/17/05	MLFM	G
G1103-C	AC-LOW	2318-16	STW	raw water	Prep Lab K-4-A	Al, Cu, Zn, Cd, Pb	01/17/05	MLFM	G
G1104-A	GC-M	2318-17	STW	raw water	Prep Lab K-4-A	Al, Cu, Zn, Cd, Pb	01/17/05	MLFM	G
G1104-B	GC-M	2318-18	STW	raw water	Prep Lab K-4-A	Al, Cu, Zn, Cd, Pb	01/17/05	MLFM	G
G1104-C	GC-M	2318-19	STW	raw water	Prep Lab K-4-A	Al, Cu, Zn, Cd, Pb	01/17/05	MLFM	G
G1105-A	WADOT-01A	2318-20	SW	raw water	Prep Lab L-4-C	Al, Cu, Zn, Cd, Pb	01/17/05	MLFM	G
G1105-B	WADOT-01A	2318-21	SW	raw water	Prep Lab L-4-C	Al, Cu, Zn, Cd, Pb	01/17/05	MLFM	G
G1105-C	WADOT-01A	2318-22	SW	raw water	Prep Lab L-4-C	Al, Cu, Zn, Cd, Pb	01/17/05	MLFM	G
G1106-B	WADOT-01B	2318-24	SW	raw water	Prep Lab L-4-C	Al, Cu, Zn, Cd, Pb	01/17/05	MLFM	G
G1107-A	WADOT-02	2318-26	SW	raw water	Prep Lab L-4-C	Al, Cu, Zn, Cd, Pb	01/17/05	MLFM	G
G1107-B	WADOT-02	2318-27	SW	raw water	Prep Lab L-4-C	Al, Cu, Zn, Cd, Pb	01/17/05	MLFM	G
G1107-C	WADOT-02	2318-28	SW	raw water	Prep Lab L-4-C	Al, Cu, Zn, Cd, Pb	01/17/05	MLFM	G
G1108-A	WADOT-03	2318-29	SW	raw water	Prep Lab K-4-A	Al, Cu, Zn, Cd, Pb	01/17/05	MLFM	G
G1108-B	WADOT-03	2318-30	SW	raw water	Prep Lab K-4-A	Al, Cu, Zn, Cd, Pb	01/17/05	MLFM	G
G1108-C	WADOT-03	2318-31	SW	raw water	Prep Lab K-4-A	Al, Cu, Zn, Cd, Pb	01/17/05	MLFM	G
T1100	LMK136	2318-32	SW	filt. water	Prep Lab L-4-D	Cd, Cu, Pb, Ag and Zn	01/17/05	MLFM	FC
T1101	GC	2318-33	STW	filt. water	Prep Lab L-4-C	Cd, Cu, Pb, Ag and Zn	01/17/05	MLFM	EC-I
T1102	GC-SAN	2318-34	STW	filt. water	Prep Lab L-4-D	Cd, Cu, Pb, Ag and Zn	01/17/05	MLFM	EC-I
T1103	AC	2318-35	STW	filt. water	Prep Lab L-4-D	Cd, Cu, Pb, Ag and Zn	01/17/05	MLFM	EC-I
T1104	LMK122	2318-36	SW	filt. water	Prep Lab L-4-D	Cd, Cu, Pb, Ag and Zn	01/17/05	MLFM	FC
T1105	LMK038	2318-37	SW	filt. water	Prep Lab L-4-D	Cd, Cu, Pb, Ag and Zn	01/17/05	MLFM	FC
T1106	PO-POBLVD	2318-38	SW	filt. water	Prep Lab L-4-D	Cd, Cu, Pb, Ag and Zn	01/17/05	MLFM	FC
G1101	KAR-WWTP	2318-40	WWTP	filt. water	Prep Lab L-4-C	Cd, Cu, Pb, Ag and Zn	01/17/05	MLFM	EC-G
G1103-A	AC-LOW	2318-42	STW	filt. water	Prep Lab K-4-A	Cu, Zn	01/17/05	MLFM	G
G1103-B	AC-LOW	2318-43	STW	filt. water	Prep Lab K-4-A	Cu, Zn	01/17/05	MLFM	G
G1103-C	AC-LOW	2318-44	STW	filt. water	Prep Lab K-4-A	Cu, Zn	01/17/05	MLFM	G

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Project Manager: Brandenberger Date Received: 01/19/05 Batch: 2

SPONSOR		BATTELLE					COLLECTION		
CODE	Station ID	CODE	MATRIX	Portion	STORAGE LOCATION	PARAMETERS REQUESTED	DATE	INITIALS	Type
G1104-A	GC-M	2318-45	STW	filt. water	Prep Lab K-4-A	Cu, Zn	01/17/05	MLFM	G
G1104-B	GC-M	2318-46	STW	filt. water	Prep Lab K-4-A	Cu, Zn	01/17/05	MLFM	G
G1104-C	GC-M	2318-47	STW	filt. water	Prep Lab K-4-A	Cu, Zn	01/17/05	MLFM	G
G1105-A	WADOT-01A	2318-48	SW	filt. water	Prep Lab L-4-C	Cu, Zn	01/17/05	MLFM	G
G1105-B	WADOT-01A	2318-49	SW	filt. water	Prep Lab L-4-C	Cu, Zn	01/17/05	MLFM	G
G1105-C	WADOT-01A	2318-50	SW	filt. water	Prep Lab L-4-C	Cu, Zn	01/17/05	MLFM	G
G1106-B	WADOT-01B	2318-52	SW	filt. water	Prep Lab L-4-C	Cu, Zn	01/17/05	MLFM	G
G1107-A	WADOT-02	2318-54	SW	filt. water	Prep Lab L-4-C	Cu, Zn	01/17/05	MLFM	G
G1107-B	WADOT-02	2318-55	SW	filt. water	Prep Lab L-4-C	Cu, Zn	01/17/05	MLFM	G
G1107-C	WADOT-02	2318-56	SW	filt. water	Prep Lab L-4-C	Cu, Zn	01/17/05	MLFM	G
G1108-A	WADOT-03	2318-57	SW	filt. water	Prep Lab K-4-A	Cu, Zn	01/17/05	MLFM	G
G1108-B	WADOT-03	2318-58	SW	filt. water	Prep Lab K-4-A	Cu, Zn	01/17/05	MLFM	G
G1108-C	WADOT-03	2318-59	SW	filt. water	Prep Lab K-4-A	Cu, Zn	01/17/05	MLFM	G
T1100	LMK136	2318-60	SW	raw water	Outside Refrigerator	Organics	01/17/05	MLFM	FC
T1102	GC-SAN	2318-62	STW	raw water	Outside Refrigerator	Organics	01/17/05	MLFM	EC-I
T1103	AC	2318-63	STW	raw water	Outside Refrigerator	Organics	01/17/05	MLFM	EC-I
T1104	LMK122	2318-64	SW	raw water	Outside Refrigerator	Organics	01/17/05	MLFM	FC
T1105	LMK038	2318-65	SW	raw water	Outside Refrigerator	Organics	01/17/05	MLFM	FC
T1106	PO-POBLVD	2318-66	SW	raw water	Outside Refrigerator	Organics	01/17/05	MLFM	FC
G1105-B-Dup	WA-DOT-01A	2318-67	SW	raw water	Prep Lab L-4-C	Al, Cu, Zn, Cd, Pb	01/17/05	MLFM	G
G1105-B-Dup	WA-DOT-01A	2318-68	SW	filt. water	Prep Lab L-4-C	Cu, Zn	01/17/05	MLFM	G
T1114	AC-DUP	2318-69	STW	raw water	Prep Lab L-4-D	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	01/17/05	MLFM	EC-I
T1114	AC-DUP	2318-70	STW	filt. water	Prep Lab L-4-D	Cd, Cu, Pb, Ag and Zn	01/17/05	MLFM	EC-I
T1114	AC-DUP	2318-71	STW	raw water	Outside Refrigerator	Organics	01/17/05	MLFM	EC-I

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SAMPLE LOGIN
(SOP# MSL-A-001)

Project Manager: Brandenberger
Date Received: 01/24/05
Batch: 3

		BATTELLE			COLLECTION				
SPONSOR CODE	Station ID	CODE	MATRIX	Portion	STORAGE LOCATION	PARAMETERS REQUESTED	DATE	INITIALS	TYPE
T1107	LMK 136	2318-72	SW	raw water	Prep Lab I-5-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	01/22/05	MLFM	FC
T1108	GC	2318-73	STW	raw water	Prep Lab I-5-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	01/22/05	MLFM	EC-I
T1109	GC-SAN	2318-74	STW	raw water	Prep Lab I-5-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	01/22/05	MLFM	EC-I
T1111	LMK 122	2318-75	SW	raw water	Prep Lab I-5-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	01/22/05	MLFM	FC
T1112	LMK 038	2318-76	SW	raw water	Prep Lab I-5-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	01/22/05	MLFM	FC
T1113	PO-POBLVD	2318-77	SW	raw water	Prep Lab I-5-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	01/22/05	MLFM	FC
T1115	AC-DUP	2318-78	STW	raw water	Prep Lab I-5-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	01/22/05	MLFM	EC-I
T1110	KAR-WWTP	2318-80	WWTP	raw water	Prep Lab I-5-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	01/22/05	MLFM	EC-G
G1112-A	AC-LOW	2318-81	STW	raw water	Prep Lab I-5-C	Al, Cu, Zn, Cd, Pb	01/22/05	MLFM	G
G1112-B	AC-LOW	2318-82	STW	raw water	Prep Lab I-5-C	Al, Cu, Zn, Cd, Pb	01/22/05	MLFM	G
G1112-C	AC-LOW	2318-83	STW	raw water	Prep Lab I-5-C	Al, Cu, Zn, Cd, Pb	01/22/05	MLFM	G
G1113-A	GC-M	2318-84	STW	raw water	Prep Lab I-5-C	Al, Cu, Zn, Cd, Pb	01/22/05	MLFM	G
G1113-B	GC-M	2318-85	STW	raw water	Prep Lab I-5-C	Al, Cu, Zn, Cd, Pb	01/22/05	MLFM	G
G1113-C	GC-M	2318-86	STW	raw water	Prep Lab I-5-C	Al, Cu, Zn, Cd, Pb	01/22/05	MLFM	G
G1114-A	WADOT-01A	2318-87	SW	raw water	Prep Lab I-5-C	Al, Cu, Zn, Cd, Pb	01/22/05	MLFM	G
G1114-B	WADOT-01A	2318-88	SW	raw water	Prep Lab I-5-C	Al, Cu, Zn, Cd, Pb	01/22/05	MLFM	G
G1114-C	WADOT-01A	2318-89	SW	raw water	Prep Lab I-5-C	Al, Cu, Zn, Cd, Pb	01/22/05	MLFM	G
G1116-A	WADOT-02	2318-93	SW	raw water	Prep Lab I-5-C	Al, Cu, Zn, Cd, Pb	01/22/05	MLFM	G
G1116-B	WADOT-02	2318-94	SW	raw water	Prep Lab I-5-C	Al, Cu, Zn, Cd, Pb	01/22/05	MLFM	G
G1116-C	WADOT-02	2318-95	SW	raw water	Prep Lab I-5-C	Al, Cu, Zn, Cd, Pb	01/22/05	MLFM	G
G1117-A	WADOT-03	2318-96	SW	raw water	Prep Lab I-5-C	Al, Cu, Zn, Cd, Pb	01/22/05	MLFM	G
G1117-B	WADOT-03	2318-97	SW	raw water	Prep Lab I-5-D	Al, Cu, Zn, Cd, Pb	01/22/05	MLFM	G
G1117-C	WADOT-03	2318-98	SW	raw water	Prep Lab I-5-D	Al, Cu, Zn, Cd, Pb	01/22/05	MLFM	G
G1112-A DUP	AC-LOW	2318-99	STW	raw water	Prep Lab I-5-D	Al, Cu, Zn, Cd, Pb	01/22/05	MLFM	G
T1107	LMK 136	2318-100	SW	filt.water	Prep Lab I-5-C	Cd, Cu, Pb, Ag and Zn	01/22/05	MLFM	FC
T1108	GC	2318-101	STW	filt.water	Prep Lab I-5-C	Cd, Cu, Pb, Ag and Zn	01/22/05	MLFM	EC-I
T1109	GC-SAN	2318-102	STW	filt.water	Prep Lab I-5-C	Cd, Cu, Pb, Ag and Zn	01/22/05	MLFM	EC-I
T1111	LMK 122	2318-103	SW	filt.water	Prep Lab I-5-C	Cd, Cu, Pb, Ag and Zn	01/22/05	MLFM	FC
T1112	LMK 038	2318-104	SW	filt.water	Prep Lab I-5-C	Cd, Cu, Pb, Ag and Zn	01/22/05	MLFM	FC
T1113	PO-POBLVD	2318-105	SW	filt.water	Prep Lab I-5-C	Cd, Cu, Pb, Ag and Zn	01/22/05	MLFM	FC
T1115	AC-DUP	2318-106	STW	filt.water	Prep Lab I-5-C	Cd, Cu, Pb, Ag and Zn	01/22/05	MLFM	EC-I
T1110	KAR-WWTP	2318-108	WWTP	filt.water	Prep Lab I-5-C	Cd, Cu, Pb, Ag and Zn	01/22/05	MLFM	EC-G

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SAMPLE LOGIN
(SOP# MSL-A-001)

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Project Manager: Brandenberger Date Received: 01/24/05

Batch: 3

		BATTELLE					COLLECTION		
SPONSOR CODE	Station ID	CODE	MATRIX	Portion	STORAGE LOCATION	PARAMETERS REQUESTED	DATE	INITIALS	TYPE
G1112-A	AC-LOW	2318-109	STW	filt.water	Prep Lab I-5-C	Cu, Zn	01/22/05	MLFM	G
G1112-B	AC-LOW	2318-110	STW	filt.water	Prep Lab I-5-C	Cu, Zn	01/22/05	MLFM	G
G1112-C	AC-LOW	2318-111	STW	filt.water	Prep Lab I-5-C	Cu, Zn	01/22/05	MLFM	G
G1113-A	GC-M	2318-112	STW	filt.water	Prep Lab I-5-C	Cu, Zn	01/22/05	MLFM	G
G1113-B	GC-M	2318-113	STW	filt.water	Prep Lab I-5-C	Cu, Zn	01/22/05	MLFM	G
G1113-C	GC-M	2318-114	STW	filt.water	Prep Lab I-5-C	Cu, Zn	01/22/05	MLFM	G
G1114-A	WADOT-01A	2318-115	SW	filt.water	Prep Lab I-5-C	Cu, Zn	01/22/05	MLFM	G
G1114-B	WADOT-01A	2318-116	SW	filt.water	Prep Lab I-5-C	Cu, Zn	01/22/05	MLFM	G
G1114-C	WADOT-01A	2318-117	SW	filt.water	Prep Lab I-5-C	Cu, Zn	01/22/05	MLFM	G
G1116-A	WADOT-02	2318-121	SW	filt.water	Prep Lab I-5-D	Cu, Zn	01/22/05	MLFM	G
G1116-B	WADOT-02	2318-122	SW	filt.water	Prep Lab I-5-D	Cu, Zn	01/22/05	MLFM	G
G1116-C	WADOT-02	2318-123	SW	filt.water	Prep Lab I-5-D	Cu, Zn	01/22/05	MLFM	G
G1117-A	WADOT-03	2318-124	SW	filt.water	Prep Lab I-5-D	Cu, Zn	01/22/05	MLFM	G
G1117-B	WADOT-03	2318-125	SW	filt.water	Prep Lab I-5-D	Cu, Zn	01/22/05	MLFM	G
G1117-C	WADOT-03	2318-126	SW	filt.water	Prep Lab I-5-D	Cu, Zn	01/22/05	MLFM	G
G1112-A DUP	AC-LOW	2318-127	STW	filt.water	Prep Lab I-5-D	Cu, Zn	01/22/05	MLFM	G
T1107	LMK 136	2318-128	SW	raw water	Outside Refrigerator	Organics	01/22/05	MLFM	FC
T1111	LMK 122	2318-129	SW	raw water	Outside Refrigerator	Organics	01/22/05	MLFM	FC
T1112	LMK 038	2318-130	SW	raw water	Outside Refrigerator	Organics	01/22/05	MLFM	FC
T1113	PO-POBLVD	2318-131	SW	raw water	Outside Refrigerator	Organics	01/22/05	MLFM	FC

SAMPLE LOGIN (SOP# MSL-A-001)

Project Manager: Brandenberger Date Received: 02/09/05

Batch: 4

PROJECT: FY05 Sinclair/Dyes Inlet Marine 1 - ENV200501

SPONSOR CODE	Station ID	BATTELLE CODE	MATRIX	Portion	STORAGE LOCATION	PARAMETERS REQUESTED	COLLECTION DATE	INITIALS	TYPE
M4100	P3	2318-132	MW	raw water	Prep Lab K-6-C	Al, Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4100	P3	2318-133	MW	filt. water	Prep Lab K-6-C	Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4101	P2	2318-134	MW	raw water	Prep Lab K-6-C	Al, Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4101	P2	2318-135	MW	filt. water	Prep Lab K-6-C	Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4102	P2-dup	2318-136	MW	raw water	Prep Lab K-6-C	Al, Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4102	P2-dup	2318-137	MW	filt. water	Prep Lab K-6-C	Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4103	P1	2318-138	MW	raw water	Prep Lab K-6-C	Al, Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4103	P1	2318-139	MW	filt. water	Prep Lab K-6-C	Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4104	M4	2318-140	MW	raw water	Prep Lab K-6-C	Al, Cd, Cu, Pb, Zn, and Hg	02/09/05	MLFM	G
M4104	M4	2318-141	MW	filt. water	Prep Lab K-6-C	Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4105	M3.3	2318-142	MW	raw water	Prep Lab K-6-C	Al, Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4105	M3.3	2318-143	MW	filt. water	Prep Lab K-6-C	Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4106	SN12	2318-144	MW	raw water	Prep Lab K-6-C	Al, Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4106	SN12	2318-145	MW	filt. water	Prep Lab K-6-C	Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4107	BJ-EST	2318-146	MW	raw water	Prep Lab K-6-C	Al, Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4107	BJ-EST	2318-147	MW	filt. water	Prep Lab K-6-C	Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4108	M3.1	2318-148	MW	raw water	Prep Lab K-6-C	Al, Cd, Cu, Pb, Zn, and Hg	02/09/05	MLFM	G
M4108	M3.1	2318-149	MW	filt. water	Prep Lab K-6-C	Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4109	M6	2318-150	MW	raw water	Prep Lab K-6-C	Al, Cd, Cu, Pb, Zn, and Hg	02/09/05	MLFM	G
M4109	M6	2318-151	MW	filt. water	Prep Lab K-6-C	Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4110	DY01	2318-152	MW	raw water	Prep Lab J-3-D	Al, Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4110	DY01	2318-153	MW	filt. water	Prep Lab J-3-D	Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4112	PLO1	2318-154	MW	raw water	Prep Lab J-3-D	Al, Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4112	PLO1	2318-155	MW	filt. water	Prep Lab J-3-D	Cd, Cu, Pb, Zn	02/09/05	MLFM	G

SAMPLE LOGIN (SOP# MSL-A-001)

Project Manager: Brandenberger
Date Received: 02/09/05

Batch: 4

PROJECT: FY05 Sinclair/Dyes Inlet Marine 1 - ENV200501

SPONSOR		BATTELLE					COLLECTION		
CODE	Station ID	CODE	MATRIX	Portion	STORAGE LOCATION	PARAMETERS REQUESTED	DATE	INITIALS	TYPE
M4113	PLO2	2318-156	MW	raw water	Prep Lab J-3-D	Al, Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4113	PLO2	2318-157	MW	filt. water	Prep Lab J-3-D	Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4114	PLO3	2318-158	MW	raw water	Prep Lab J-3-D	Al, Cd, Cu, Pb, Zn	02/09/05	MLFM	G
M4114	PLO3	2318-159	MW	filt. water	Prep Lab J-3-D	Cd. Cu. Pb. Zn	02/09/05	MLFM	G

SAMPLE LOGIN

(SOP# MSL-A-001)

Project Manager: Brandenberger
Date Received: 3/2/05

Batch: 5

PROJECT FY05 Sinclair Storm 1

SPONSOR		BATTELLE			STORAGE			Start		
CODE	Site Description	CODE	MATRIX	Portion	LOCATION	PARAMETERS REQUESTED	Start Date	Time	INITIALS	TYPE
T1200	BL	2318*160	STW	TME	L Floor B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	02/28/05	1538	CS	EC-I
T1200	BL	2318*161	STW	DME	L Floor B	Cd, Cu, Pb, Ag and Zn	02/28/05	1538	CS	EC-I
T1201	OC	2318*162	STW	TME	L Floor B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	02/28/05	1558	CS	EC-I
T1201	OC	2318*163	STW	DME	L Floor B	Cd, Cu, Pb, Ag and Zn	02/28/05	1558	CS	EC-I
T1202	B-ST28	2318*164	SW	TME	L Floor B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	02/28/05	1521	CS	FC
T1202	B-ST28	2318*165	SW	DME	L Floor B	Cd, Cu, Pb, Ag and Zn	02/28/05	1521	CS	FC
T1203	B-ST/CSO16	2318*166	SW	TME	L Floor B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	02/28/05	1452	CS	FC
T1203	B-ST/CSO16	2318*167	SW	DME	L Floor B	Cd, Cu, Pb, Ag and Zn	02/28/05	1452	CS	FC
T1204	PSNS015	2318*168	SW	TME	L Floor B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	02/28/05	1741	CS	FC
T1204	PSNS015	2318*169	SW	DME	L Floor B	Cd, Cu, Pb, Ag and Zn	02/28/05	1741	CS	FC
T1205	PSNS124	2318*170	SW	TME	L Floor B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	02/28/05	1726	CS	FC
T1205	PSNS124	2318*171	SW	DME	L Floor B	Cd, Cu, Pb, Ag and Zn	02/28/05	1726	CS	FC
T1206	PSNS126	2318*172	SW	TME	L Floor B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	02/28/05	1732	CS	FC
T1206	PSNS126	2318*173	SW	DME	L Floor B	Cd, Cu, Pb, Ag and Zn	02/28/05	1732	cs	FC
G1200	B-WWTP	2318*174	WWTP	TME	L Floor B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	03/01/05	725	CS	EC-G
G1200	B-WWTP	2318*175	WWTP	DME	L Floor B	Cd, Cu, Pb, Ag and Zn	03/01/05	725	CS	EC-G
G1201	KAR-WWTP	2318*176	WWTP	TME	L Floor B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	03/01/05	800	CS	EC-G
G1201	KAR-WWTP	2318*177	WWTP	DME	21.100.2	Cd, Cu, Pb, Ag and Zn	03/01/05	800	CS	EC-G
G1202	B-ETF	2318*178	NOT COL			Cu, Cu, I b, Ag and Zii	03/01/03	000	00	LO-0
G1202	B-ETF	2318*179	NOT COL							
G1205-A	WADOT-01A	2318*180	SW	TME	L Floor B	Al, Cu, Zn, Cd, Pb	02/28/05	1705	CS	G
G1205-A	WADOT-01A	2318*181	SW	DME	L Floor B	Cu, Zn	02/28/05	1705	CS	G
G1205-B	WADOT-01A	2318*182	SW	TME	L Floor B	Al, Cu, Zn, Cd, Pb	02/28/05	2238	CS	G
G1205-B	WADOT-01A	2318*183	SW	DME	L Floor B	Cu, Zn	02/28/05	2238	CS	G
G1205-C	WADOT-01A	2318*184	SW	TME	K Floor B	Al, Cu, Zn, Cd, Pb	03/01/05	1021	CS	G
G1205-C	WADOT-01A	2318*185	SW	DME	K Floor B	Cu, Zn	03/01/05	1021	CS	G
G1206-A	WADOT-01B	2318*186	NOT COL							
G1206-A	WADOT-01B	2318*187	NOT COL							
G1206-B	WADOT-01B	2318*188	NOT COL	LECTED						

SAMPLE LOGIN

(SOP# MSL-A-001)

Project Manager: Brandenberger
Date Received: 3/2/05

Batch: 5

PROJECT FY05 Sinclair Storm 1

SPONSOR		BATTELLE			STORAGE			Start		
CODE	Site Description	CODE	MATRIX	Portion	LOCATION	PARAMETERS REQUESTED	Start Date	Time	INITIALS	TYPE
G1206-B	WADOT-01B	2318*189	NOT COL							
G1206-C	WADOT-01B	2318*190	NOT COL							
G1206-C	WADOT-01B	2318*191	NOT COL							
G1207-A	WADOT-02	2318*192	SW	TME	K Floor B	Al, Cu, Zn, Cd, Pb	02/28/05	1645	CS	G
G1207-A	WADOT-02	2318*193	SW	DME	K Floor B	Cu, Zn	02/28/05	1645	CS	G
G1207-B	WADOT-02	2318*194	SW	TME	K Floor B	Al, Cu, Zn, Cd, Pb	02/28/05	2206	CS	G
G1207-B	WADOT-02	2318*195	SW	DME	K Floor B	Cu, Zn	02/28/05	2206	CS	G
G1207-C	WADOT-02	2318*196	SW	TME	K Floor B	Al, Cu, Zn, Cd, Pb	03/01/05	1010	CS	G
G1207-C	WADOT-02	2318*197	SW	DME	K Floor B	Cu, Zn	03/01/05	1010	CS	G
G1208-A	WADOT-03	2318*198	SW	TME	K Floor B	Al, Cu, Zn, Cd, Pb	02/28/05	1655	CS	G
G1208-A	WADOT-03	2318*199	SW	DME	K Floor B	Cu, Zn	02/28/05	1655	CS	G
G1208-B	WADOT-03	2318*200	SW SW	TME	K Floor B	Al, Cu, Zn, Cd, Pb	02/28/05	2216	CS CS	G G
G1208-B G1208-C	WADOT-03 WADOT-03	2318*201 2318*202	SW	DME TME	K Floor B K Floor B	Cu, Zn Al, Cu, Zn, Cd, Pb	02/28/05 03/01/05	2216 1015	CS	G
G1208-C	WADOT-03	2318*203	SW	DME	K Floor B	Cu, Zn	03/01/05	1015	CS	G
		2310 203	344	DIVIL	K I IOOI B	Gu, Zii	03/01/03	1013	00	G
SEAWATER:	=-									_
M4150	P3	2318*204	MW	TME	L Floor D	Al, Cd, Cu, Pb, Zn	03/02/05	653	CS	G
M4150	P3	2318*205	MW	DME	L Floor D	Cd, Cu, Pb, Zn	03/02/05	653	CS	G
M4151	P2	2318*206	MW	TME	L Floor D	Al, Cd, Cu, Pb, Zn	03/02/05	710	CS	G
M4151	P2	2318*207	MW	DME	L Floor D	Cd, Cu, Pb, Zn	03/02/05	710	CS	G
M4154	M4 DUP	2318*208	MW	TME	L Floor D	Al, Cd, Cu, Pb, Zn, and Hg	03/02/05	823	CS	G
M4154	M4 DUP	2318*209	MW	DME	L Floor D	Cd, Cu, Pb, Zn	03/02/05	823	CS	G
M4152	P1	2318*210	MW	TME	L Floor D	Al, Cd, Cu, Pb, Zn	03/02/05	752	CS	G
M4152	P1	2318*211	MW	DME	L Floor D	Cd, Cu, Pb, Zn	03/02/05	752	CS	G
M4153	M4	2318*212	MW	TME	L Floor D	Al, Cd, Cu, Pb, Zn	03/02/05	823	CS	G
M4153	M4	2318*213	MW	DME	L Floor D	Cd, Cu, Pb, Zn	03/02/05	823	CS	G
M4155	M3.3	2318*214	MW	TME	L Floor D	Al, Cd, Cu, Pb, Zn	03/02/05	846	CS	G
M4155	M3.3	2318*215	MW	DME	L Floor D	Cd, Cu, Pb, Zn	03/02/05	846	CS	G
M4156	SN12	2318*216	MW	TME	L Floor D	Al, Cd, Cu, Pb, Zn	03/02/05	900	CS	G
M4156	SN12	2318*217	MW	DME	L Floor D	Cd, Cu, Pb, Zn	03/02/05	900	CS	G
M4157	BJ-EST	2318*218	MW	TME	L Floor D	Al, Cd, Cu, Pb, Zn	03/02/05	914	CS	G
			MW					914	CS	G
M4157	BJ-EST	2318*219	IVIVV	DME	L Floor D	Cd, Cu, Pb, Zn	03/02/05	914	CS	G

SAMPLE LOGIN

(SOP# MSL-A-001)

Project Manager: Brandenberger
Date Received: 3/2/05

Batch: 5

PROJECT FY05 Sinclair Storm 1

SPONSOR		BATTELLE			STORAGE			Start		
CODE	Site Description	CODE	MATRIX	Portion	LOCATION	PARAMETERS REQUESTED	Start Date	Time	INITIALS	TYPE
M4158	M3.1	2318*220	MW	TME	L Floor D	Al, Cd, Cu, Pb, Zn, and Hg	03/02/05	947	CS	G
M4158	M3.1	2318*221	MW	DME	L Floor D	Cd, Cu, Pb, Zn	03/02/05	947	CS	G
M4159	M6	2318*222	MW	TME	L Floor C	Al, Cd, Cu, Pb, Zn, and Hg	03/02/05	1117	CS	G
M4159	M6	2318*223	MW	DME	L Floor C	Cd, Cu, Pb, Zn	03/02/05	1117	CS	G
M4160	DY01	2318*224	MW	TME	L Floor C	Al, Cd, Cu, Pb, Zn	03/02/05	958	CS	G
M4160	DY01	2318*225	MW	DME	L Floor C	Cd, Cu, Pb, Zn	03/02/05	958	CS	G
M4163	PL05	2318*226	MW	TME	L Floor C	Al, Cd, Cu, Pb, Zn	03/02/05	931	CS	G
M4163	PL05	2318*227	MW	DME	L Floor C	Cd, Cu, Pb, Zn	03/02/05	931	CS	G
M4164	PL06	2318*228	MW	TME	L Floor C	Al, Cd, Cu, Pb, Zn	03/02/05	1051	CS	G
M4164	PL06	2318*229	MW	DME	L Floor C	Cd, Cu, Pb, Zn	03/02/05	1051	CS	G
M4162	PL04	2318*230	MW	TME	L Floor C	Al, Cd, Cu, Pb, Zn	03/02/05	840	CS	G
M4162	PL04	2318*231	MW	DME	L Floor C	Cd, Cu, Pb, Zn	03/02/05	840	CS	G
ORGANICS:										
T1200	BL	2318*232	STW	NA	Outside Ref	Organics	02/28/05	1538	CS	EC-I
T1201	OC	2318*233	STW	NA	Outside Ref	Organics	02/28/05	1558	CS	EC-I
T1202	B-ST28	2318*234	SW	NA	Outside Ref	Organics	02/28/05	1521	CS	FC
T1203	B-ST/CSO16	2318*235	SW	NA	Outside Ref	Organics	02/28/05	1452	CS	FC
T1204	PSNS015	2318*236	SW	NA	Outside Ref	Organics	02/28/05	1741	CS	FC
T1205	PSNS124	2318*237	SW	NA	Outside Ref	Organics	02/28/05	1726	CS	FC
T1206	PSNS126	2318*238	SW	NA	Outside Ref	Organics	02/28/05	1732	CS	FC

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SAMPLE LOGIN (SOP# MSL-A-001)

Project Manager: Brandenberger Date Received: 03/21/05

Batch:

PROJECT: Sinclair Marine 3 FY05

		BATTELLE				COLLECTION		
SPONSOR CODE	Site Description	CODE	MATRIX	STORAGE LOCATION	PARAMETERS REQUESTED	DATE	Time	INITIALS
M4200	P3	2318*239	Total	Prep Lab K-2-C	Al, Cd, Cu, Pb, Zn	03/19/05	646	CS
M4200	P3	2318*240	Dissolved	Prep Lab K-2-C	Cd, Cu, Pb, Zn	03/19/05	646	CS
M4201	P2	2318*241	Total	Prep Lab K-2-C	Al, Cd, Cu, Pb, Zn	03/19/05	710	CS
M4201	P2	2318*242	Dissolved	Prep Lab K-2-C	Cd, Cu, Pb, Zn	03/19/05	710	CS
M4202	P1	2318*243	Total	Prep Lab K-2-C	Al, Cd, Cu, Pb, Zn	03/19/05	747	CS
M4202	P1	2318*244	Dissolved	Prep Lab K-2-C	Cd, Cu, Pb, Zn	03/19/05	747	CS
M4203	M4	2318*245	Total	Prep Lab K-2-C	Al, Cd, Cu, Pb, Zn, and Hg	03/19/05	829	CS
M4203	M4	2318*246	Dissolved	Prep Lab K-2-C	Cd, Cu, Pb, Zn	03/19/05	829	CS
M4204	M3.3	2318*247	Total	Prep Lab K-2-C	Al, Cd, Cu, Pb, Zn	03/19/05	844	CS
M4204	M3.3	2318*248	Dissolved	Prep Lab K-2-C	Cd, Cu, Pb, Zn	03/19/05	844	CS
M4205	SN12	2318*249	Total	Prep Lab K-2-C	Al, Cd, Cu, Pb, Zn	03/19/05	859	CS
M4205	SN12	2318*250	Dissolved	Prep Lab K-2-C	Cd, Cu, Pb, Zn	03/19/05	859	CS
M4206	SN12DUP	2318*251	Total	Prep Lab K-2-C	Al, Cd, Cu, Pb, Zn	03/19/05	859	CS
M4206	SN12DUP	2318*252	Dissolved	Prep Lab K-2-C	Cd, Cu, Pb, Zn	03/19/05	859	CS
M4207	BJ-EST	2318*253	Total	Prep Lab K-2-C	Al, Cd, Cu, Pb, Zn	03/19/05	913	CS
M4207	BJ-EST	2318*254	Dissolved	Prep Lab K-2-C	Cd, Cu, Pb, Zn	03/19/05	913	CS
M4208	M3.1	2318*255	Total	Prep Lab K-2-C	Al, Cd, Cu, Pb, Zn, and Hg	03/19/05	940	CS
M4208	M3.1	2318*256	Dissolved	Prep Lab K-2-C	Cd, Cu, Pb, Zn	03/19/05	940	CS
M4209	M6	2318*257	Total	Prep Lab K-2-C	Al, Cd, Cu, Pb, Zn, and Hg	03/19/05	1051	CS
M4209	M6	2318*258	Dissolved	Prep Lab K-2-C	Cd, Cu, Pb, Zn	03/19/05	1051	CS
M4210	DY01	2318*259	Total	Prep Lab K-2-C	Al, Cd, Cu, Pb, Zn	03/19/05	952	CS
M4210	DY01	2318*260	Dissolved	Prep Lab K-1-B	Cd, Cu, Pb, Zn	03/19/05	952	CS
M4212	PL07	2318*261	Total	Prep Lab K-1-B	Al, Cd, Cu, Pb, Zn	03/19/05	925	CS
M4212	PL07	2318*262	Dissolved	Prep Lab K-1-B	Cd, Cu, Pb, Zn	03/19/05	925	CS
M4213	PL08	2318*263	Total	Prep Lab K-1-B	Al, Cd, Cu, Pb, Zn	03/19/05	1030	CS
M4213	PL08	2318*264	Dissolved	Prep Lab K-1-B	Cd, Cu, Pb, Zn	03/19/05	1030	CS
M4214	PL09	2318*265	Total	Prep Lab K-1-B	Al, Cd, Cu, Pb, Zn	03/19/05	1030	CS
M4214	PL09	2318*266	Dissolved	Prep Lab K-1-B	Cd, Cu, Pb, Zn	03/19/05	1030	CS

Project Manager: Brandenberger
Date Received: 03/21/05
Batch: 6

PROJECT: Sinclair Storm 2 FY05

SPONSOR	<u> </u>	BATTELLE			STORAGE					
CODE	Site Description	CODE	MATRIX	Portion	LOCATION	PARAMETERS REQUESTED	INITIALS	Start Date	Start Time	TYPE
T1209	B-ST28	2318*267	SW	TME	Prep Lab K-1-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	CS,MLFM	03/19/05	1254	FC
T1209	B-ST28	2318*268	SW	DME	Prep Lab K-1-B	Cd, Cu, Pb, Ag and Zn	CS,MLFM	03/19/05	1254	FC
T1210	B-ST/CSO16	2318*269	SW	TME	Prep Lab K-1-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	CS,MLFM	03/19/05	1308	FC
T1210	B-ST/CSO16	2318*270	SW	DME	Prep Lab K-1-B	Cd, Cu, Pb, Ag and Zn	CS,MLFM	03/19/05	1308	FC
T1211	PSNS015	2318*271	SW	TME	Prep Lab K-1-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	CS,MLFM	03/19/05	1238	FC
T1211	PSNS015	2318*272	SW	DME	Prep Lab K-1-B	Cd, Cu, Pb, Ag and Zn	CS,MLFM	03/19/05	1238	FC
T1212	PSNS124	2318*273	SW	TME	Prep Lab K-1-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	CS,MLFM	03/19/05	1230	FC
T1212	PSNS124	2318*274	SW	DME	Prep Lab K-1-B	Cd, Cu, Pb, Ag and Zn	CS,MLFM	03/19/05	1230	FC
T1213	PSNS126	2318*275	SW	TME	Prep Lab K-1-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	CS,MLFM	03/19/05	1227	FC
T1213	PSNS126	2318*276	SW	DME	Prep Lab K-1-B	Cd, Cu, Pb, Ag and Zn	CS,MLFM	03/19/05	1227	FC
T1207	BL	2318*277	STW	TME	Prep Lab K-1-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	CS,MLFM	03/19/05	1240	EC-I
T1207	BL	2318*278	STW	DME	Prep Lab K-1-B	Cd, Cu, Pb, Ag and Zn	CS,MLFM	03/19/05	1240	EC-I
T1208	OC	2318*279	STW	TME	Prep Lab K-1-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	CS,MLFM	03/19/05	1236	EC-I
T1208	OC	2318*280	STW	DME	Prep Lab K-1-A	Cd, Cu, Pb, Ag and Zn	CS,MLFM	03/19/05	1236	EC-I
T1221	B-ST12	2318*281	SW	TME	Prep Lab K-1-A	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	CS,MLFM	03/19/05	1318	FC
T1221	B-ST12	2318*282	SW	DME	Prep Lab K-1-A	Cd, Cu, Pb, Ag and Zn	CS,MLFM	03/19/05	1318	FC
G1210	KAR-WWTP	2318*283	WWTP	TME	Prep Lab K-1-A	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	CS,MLFM	03/19/05	1300	EC-G
G1210	KAR-WWTP	2318*284	WWTP	DME	Prep Lab K-1-A	Cd, Cu, Pb, Ag and Zn	CS,MLFM	03/19/05	1300	EC-G
G1214A	WADOT-01A	2318*285	SW	TME	Prep Lab K-1-A	Al, Cu, Zn, Cd, Pb	CS,MLFM	03/19/05	1428	G
G1214A	WADOT-01A	2318*286	SW	DME	Prep Lab K-1-A	Cu, Zn	CS,MLFM	03/19/05	1428	G
G1214B	WADOT-01A	2318*287	SW	TME	Prep Lab K-1-A	Al, Cu, Zn, Cd, Pb	CS,MLFM	03/19/05	1815	G
G1214B	WADOT-01A	2318*288	SW	DME	Prep Lab K-1-A	Cu, Zn	CS,MLFM	03/19/05	1815	G
G1214C	WADOT-01A	2318*289	SW	TME	Prep Lab K-1-A	Al, Cu, Zn, Cd, Pb	CS,MLFM	03/20/05	1050	G
G1214C	WADOT-01A	2318*290	SW	DME	Prep Lab K-1-A	Cu, Zn	CS,MLFM	03/20/05	1050	G
G1216A	WADOT-02	2318*297	SW	TME	Prep Lab K-1-A	Al, Cu, Zn, Cd, Pb	CS,MLFM	03/19/05	1420	G
G1216A	WADOT-02	2318*298	SW	DME	Prep Lab K-1-A	Cu, Zn	CS,MLFM	03/19/05	1420	G
G1216B	WADOT-02	2318*299	SW	TME	Prep Lab K-1-A	Al, Cu, Zn, Cd, Pb	CS,MLFM	03/19/05	1800	G
G1216B	WADOT-02	2318*300	SW	DME	Prep Lab K-1-A	Cu, Zn	CS,MLFM	03/19/05	1800	G
G1216C	WADOT-02	2318*301	SW	TME	Prep Lab K-1-A	Al, Cu, Zn, Cd, Pb	CS,MLFM	03/20/05	1035	G
G1216C	WADOT-02	2318*302	SW	DME	Prep Lab I-3-C	Cu, Zn	CS,MLFM	03/20/05	1035	G
G1217A	WADOT-03	2318*303	SW	TME	Prep Lab I-3-C	Al, Cu, Zn, Cd, Pb	CS,MLFM	03/19/05	1412	G

Project Manager: Brandenberger
Date Received: 03/21/05
Batch: 6

PROJECT: Sinclair Storm 2 FY05

SPONSOR		BATTELLE			STORAGE					
CODE	Site Description	CODE	MATRIX	Portion	LOCATION	PARAMETERS REQUESTED	INITIALS	Start Date	Start Time	TYPE
G1217A	WADOT-03	2318*304	SW	DME	Prep Lab I-3-C	Cu, Zn	CS,MLFM	03/19/05	1412	G
G1217B	WADOT-03	2318*305	SW	TME	Prep Lab I-3-C	Al, Cu, Zn, Cd, Pb	CS,MLFM	03/19/05	1805	G
G1217B	WADOT-03	2318*306	SW	DME	Prep Lab I-3-C	Cu, Zn	CS,MLFM	03/19/05	1805	G
G1217C	WADOT-03	2318*307	SW	TME	Prep Lab I-3-C	Al, Cu, Zn, Cd, Pb	CS,MLFM	03/20/05	1040	G
G1217C	WADOT-03	2318*308	SW	DME	Prep Lab I-3-C	Cu, Zn	CS,MLFM	03/20/05	1040	G
G1214B DUP	WADOT-01A	2318*316	SW	DME	Prep Lab I-3-C	Cu, Zn	CS,MLFM	03/19/05	1815	G
G1214B DUP	WADOT-01A	2318*317	SW	TME	Prep Lab I-3-C	Al, Cu, Zn, Cd, Pb	CS,MLFM	03/19/05	1815	G
G1214C DUP	WADOT-01A	2318*318	SW	DME	Prep Lab I-3-C	Cu, Zn	CS,MLFM	03/20/05	1052	G
G1214C DUP	WADOT-01A	2318*319	SW	TME	Prep Lab I-3-C	Al, Cu, Zn, Cd, Pb	CS,MLFM	03/20/05	1052	G
<u>ORGANICS</u>										
T1209	B-ST28	2318*309	SW	Freshwater	Refigerator	ORGANICS	CS,MLFM	03/19/05	1254	FC
T1210	B-ST/CSO16	2318*310	SW	Freshwater	Refigerator	ORGANICS	CS,MLFM	03/19/05	1308	FC
T1211	PSNS015	2318*311	SW	Freshwater	Refigerator	ORGANICS	CS,MLFM	03/19/05	1238	FC
T1212	PSNS124	2318*312	SW	Freshwater	Refigerator	ORGANICS	CS,MLFM	03/19/05	1230	FC
T1213	PSNS126	2318*313	SW	Freshwater	Refigerator	ORGANICS	CS,MLFM	03/19/05	1227	FC
T1207	BL	2318*314	STW	Freshwater	Refigerator	No not Analyze	CS,MLFM	03/19/05	1240	EC-I
T1208	OC	2318*315	STW	Freshwater	Refigerator	No not Analyze	CS,MLFM	03/19/05	1236	EC-I
T1221	B-ST12	2318*320	SW	Freshwater	Refigerator	ORGANICS	CS,MLFM	03/19/05	1318	FC

Project Manager: Brandenberger
Date Received: 03/27/05
Batch:

FW = Freshwater PROJECT: FY 05 Dyes Storm 1

SPONSOR	Site	BATTELLE			STORAGE				Start	Sample
CODE	Description	CODE	MATRIX	Portion	LOCATION	PARAMETERS REQUESTED	INITIALS	Start Date	Time	Type
T1305	SW6	2318*321	SW	Total - FW	Prep Lab I-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JB	03/26/05	140	FC
T1305	SW6	2318*322	SW	Diss - FW	Prep Lab I-1-C	Cd, Cu, Pb, Ag and Zn	JB	03/26/05	140	FC
T1306	B-ST12	2318*323	SW	Total - FW	Prep Lab I-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JB	03/26/05	136	FC
T1306	B-ST12	2318*324	SW	Diss - FW	Prep Lab I-1-C	Cd, Cu, Pb, Ag and Zn	JB	03/26/05	136	FC
T1301	BA	2318*327	STW	Total - FW	Prep Lab I-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JB	03/26/05	142	EC-I
T1301	BA	2318*328	STW	Diss - FW	Prep Lab I-1-C	Cd, Cu, Pb, Ag and Zn	JB	03/26/05	142	EC-I
T1302	CC	2318*329	STW	Total - FW	Prep Lab I-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JB	03/26/05	133	EC-I
T1302	CC	2318*330	STW	Diss - FW	Prep Lab I-1-C	Cd, Cu, Pb, Ag and Zn	JB	03/26/05	133	EC-I
T1303	SC	2318*331	STW	Total - FW	Prep Lab I-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JB	03/26/05	834	EC-I
T1303	SC	2318*332	STW	Diss - FW	Prep Lab I-1-C	Cd, Cu, Pb, Ag and Zn	JB	03/26/05	834	EC-I
T1304	CH	2318*333	STW	Total - FW	Prep Lab I-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JB	03/26/05	56	EC-I
T1304	СН	2318*334	STW	Diss - FW	Prep Lab I-1-C	Cd, Cu, Pb, Ag and Zn	JB	03/26/05	56	EC-I
G1210	KAR-WWTP	2318*335	WWTP	Total - FW	Prep Lab J-2-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JB	03/26/05	800	EC-G
G1210	KAR-WWTP	2318*336	WWTP	Diss - FW	Prep Lab J-2-B	Cd, Cu, Pb, Ag and Zn	JB	03/26/05	800	EC-G
T1307-A	B-ST01	2318*337	SW	Total - FW	Prep Lab I-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn	JB	03/26/05	115	G
T1307-A	B-ST01	2318*338	SW	Diss - FW	Prep Lab I-1-C	Cd, Cu, Pb, Ag and Zn	JB	03/26/05	115	G
T1307-B	B-ST01	2318*339	SW	Total - FW	Prep Lab I-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn	JB	03/26/05	945	G
T1307-B	B-ST01	2318*340	SW	Diss - FW	Prep Lab I-1-B	Cd, Cu, Pb, Ag and Zn	JB	03/26/05	945	G
T1307-C	B-ST01	2318*341	SW	Total - FW	Prep Lab I-1-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn	JB	03/26/05	1845	G
T1307-C	B-ST01	2318*342	SW	Diss - FW	Prep Lab I-1-B	Cd, Cu, Pb, Ag and Zn	JB	03/26/05	1845	G
T1307	B-ST01	2318*371	SW	Total - FW	Prep Lab I-1-B	Hg	JB	03/26/05	115	EC-G
ORGANICS	}									
T1305	SW6	2318*374	SW	Total - FW	Outside Fridge	ORGANICS	JB	03/26/05	140	FC
T1306	B-ST12	2318*376	SW	Total - FW	Outside Fridge	ORGANICS	JB	03/26/05	136	FC
T1301	BA	2318*380	STW	Total - FW	Outside Fridge	ORGANICS	JB	03/26/05	142	EC-I
T1302	CC	2318*382	STW	Total - FW	Outside Fridge	ORGANICS	JB	03/26/05	133	EC-I
T1304	CH	2318*386	STW	Total - FW	Outside Fridge	ORGANICS	JB	03/26/05	56	EC-I
T1307	B-ST01	2318*389	SW	Total - FW	Outside Fridge	ORGANICS	JB	03/26/05	115	EC-G

SAMPLE LOGIN

(SOP# MSL-A-001)

Project Manager: Brandenberger Date Received: 03/28/05

Batch: 8

MW = Seawater PROJECT: Sinclair Marine 4 FY05

SPONSOR	Site	BATTELLE	MATRIX	STORAGE	DADAMETERS REQUESTED	COLLECTION		INITIAL C
CODE	Description	CODE	MATRIX	LOCATION	PARAMETERS REQUESTED	DATE	TIME	INITIALS
M4250	P3	2318*343	Total - MW	Prep Lab J-2-B	Al, Cd, Cu, Pb, Zn	03/28/05	653	JB
M4250	P3	2318*344	Diss - MW	Prep Lab J-2-B	Cd, Cu, Pb, Zn	03/28/05	653	JB
M4251	P2	2318*345	Total - MW	Prep Lab J-2-B	Al, Cd, Cu, Pb, Zn	03/28/05	637	JB
M4251	P2	2318*346	Diss - MW	Prep Lab J-2-B	Cd, Cu, Pb, Zn	03/28/05	637	JB
M4252	P1	2318*347	Total - MW	Prep Lab J-2-B	Al, Cd, Cu, Pb, Zn	03/28/05	721	JB
M4252	P1	2318*348	Diss - MW	Prep Lab J-2-B	Cd, Cu, Pb, Zn	03/28/05	721	JB
M4253	M4	2318*349	Total - MW	Prep Lab J-2-B	Al, Cd, Cu, Pb, Zn, and Hg	03/28/05	814	JB
M4253	M4	2318*350	Diss - MW	Prep Lab J-2-B	Cd, Cu, Pb, Zn	03/28/05	814	JB
M4254	M3.3	2318*351	Total - MW	Prep Lab J-2-B	Al, Cd, Cu, Pb, Zn	03/28/05	857	JB
M4254	M3.3	2318*352	Diss - MW	Prep Lab J-2-B	Cd, Cu, Pb, Zn	03/28/05	857	JB
M4255	SN12	2318*353	Total - MW	Prep Lab J-2-B	Al, Cd, Cu, Pb, Zn	03/28/05	910	JB
M4255	SN12	2318*354	Diss - MW	Prep Lab J-2-B	Cd, Cu, Pb, Zn	03/28/05	910	JB
M4256	BJ-EST	2318*355	Total - MW	Prep Lab J-4-C	Al, Cd, Cu, Pb, Zn	03/28/05	922	JB
M4256	BJ-EST	2318*356	Diss - MW	Prep Lab J-4-C	Cd, Cu, Pb, Zn	03/28/05	922	JB
M4257	M3.1	2318*357	Total - MW	Prep Lab J-4-C	Al, Cd, Cu, Pb, Zn, and Hg	03/28/05	942	JB
M4257	M3.1	2318*358	Diss - MW	Prep Lab J-4-C	Cd, Cu, Pb, Zn	03/28/05	942	JB
M4258	M3.1DUP	2318*359	Total - MW	Prep Lab J-4-C	Al, Cd, Cu, Pb, Zn, and Hg	03/28/05	942	JB
M4258	M3.1DUP	2318*360	Diss - MW	Prep Lab J-4-C	Cd, Cu, Pb, Zn	03/28/05	942	JB
M4259	M6	2318*361	Total - MW	Prep Lab J-4-C	Al, Cd, Cu, Pb, Zn	03/28/05	1057	JB
M4259	M6	2318*362	Diss - MW	Prep Lab J-4-C	Cd, Cu, Pb, Zn	03/28/05	1057	JB
M4260	DY01	2318*363	Total - MW	Prep Lab J-4-C	Al, Cd, Cu, Pb, Zn	03/28/05	1002	JB
M4260	DY01	2318*364	Diss - MW	Prep Lab J-2-C	Cd, Cu, Pb, Zn	03/28/05	1002	JB
M4262	PL10	2318*365	Total - MW	Prep Lab J-2-C	Al, Cd, Cu, Pb, Zn	03/28/05	754	JB
M4262	PL10	2318*366	Diss - MW	Prep Lab J-2-C	Cd, Cu, Pb, Zn	03/28/05	754	JB
M4263	PL11	2318*367	Total - MW	Prep Lab J-2-C	Al, Cd, Cu, Pb, Zn	03/28/05	831	JB
M4263	PL11	2318*368	Diss - MW	Prep Lab J-2-C	Cd, Cu, Pb, Zn	03/28/05	831	JB
M4264	PL12	2318*369	Total - MW	Prep Lab J-2-C	Al, Cd, Cu, Pb, Zn	03/28/05	846	JB
M4264	PL12	2318*370	Diss - MW	Prep Lab J-2-C	Cd, Cu, Pb, Zn	03/28/05	846	JB
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Page 1 of 1

SAMPLE LOGIN

(SOP# MSL-A-001

Project Manager: Brandenberger
Date Received: 4/1/2005
Batch: 10

PROJECT: FY05 Dyes Storm 2

FW = Freshwater

FW = Freshwat				_						
SPONSOR CODE	Site Description	BATTELLE CODE	MATRIX	Portion	STORAGE LOCATION	PARAMETERS REQUESTED	INITIALS	Start Date	Start Time	Sample Type
T1313	SW6	2318*391	SW	Total - FW	L-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/31/05	2036	FC
T1313	SW6	2318*392	SW	Diss - FW	L-1-C	Cd, Cu, Pb, Ag and Zn	JMB	03/31/05	2036	FC
T1314	B-ST12	2318*393	SW	Total - FW	L-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/31/05	1907	FC
T1314	B-ST12	2318*394	SW	Diss - FW	L-1-C	Cd, Cu, Pb, Ag and Zn	JMB	03/31/05	1907	FC
T1308	BI-SBC	2318*395	STW	Total - FW	L-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/31/05	1849	FC
T1308	BI-SBC	2318*396	STW	Diss - FW	L-1-C	Cd, Cu, Pb, Ag and Zn	JMB	03/31/05	1849	FC
T1309	BA	2318*397	STW	Total - FW	L-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/31/05	2000	EC-I
T1309	BA	2318*398	STW	Diss - FW	L-1-C L-1-C	Cd, Cu, Pb, Ag and Zn	JMB	03/31/05	2000	EC-I
T1309	CC	2318*399	STW	Total - FW	L-1-C L-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/31/05	2157	EC-I
	CC				L-1-C L-1-C					EC-I
T1310		2318*400	STW	Diss - FW		Cd, Cu, Pb, Ag and Zn	JMB	03/31/05	2157	
T1311	SC	2318*401	STW	Total - FW	L-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/31/05	2032	EC-I
T1311	SC	2318*402	STW	Diss - FW	L-1-C	Cd, Cu, Pb, Ag and Zn	JMB	03/31/05	2032	EC-I
T1312	СН	2318*403	STW	Total - FW	L-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/31/05	1819	EC-I
T1312	СН	2318*404	STW	Diss - FW	L-1-C	Cd, Cu, Pb, Ag and Zn	JMB	03/31/05	1819	EC-I
T1315A	B-ST01	2318*405	SW	Total - FW	L-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/31/05	1750	G
T1315A	B-ST01	2318*406	SW	Diss - FW	L-1-C	Cd, Cu, Pb, Ag and Zn	JMB	03/31/05	1750	G
T1315B	B-ST01	2318*407	SW	Total - FW	L-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/31/05	30	G
T1315B	B-ST01	2318*408	SW	Diss - FW	L-1-C	Cd, Cu, Pb, Ag and Zn	JMB	03/31/05	30	G
T1315C	B-ST01	2318*409	SW	Total - FW	L-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/31/05	955	G
T1315C	B-ST01	2318*410	SW	Diss - FW	L-1-C	Cd, Cu, Pb, Ag and Zn	JMB	03/31/05	955	G
G1219	KAR-WWTP	2318*411	WWTP	Total - FW	L-1-C	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	04/01/05	730	EC-G
G1219	KAR-WWTP	2318*412	WWTP	Diss - FW	L-1-C	Cd, Cu, Pb, Ag and Zn	JMB	04/01/05	730	EC-G
T1315	B-ST01	2318*441	SW	Total - FW	L-1-C	HG	JMB	03/31/05	1750	EC-G
<u>ORGANICS</u>										
T1313	SW6	2318*445	SW	Total - FW	Outside Refrig	ORGANICS	JMB	03/31/05	2036	FC
T1314	B-ST12	2318*446	SW	Total - FW	Outside Refrig	ORGANICS	JMB	03/31/05	1907	FC
T1308	BI-SBC	2318*447	STW	Total - FW	Outside Refrig	ORGANICS	JMB	03/31/05	1849	FC
T1311	SC	2318*450	STW	Total - FW	Outside Refrig	ORGANICS	JMB	03/31/05	2032	EC-I
T1315	B-ST01	2318*452	SW	Total - FW	Outside Refrig	ORGANICS	JMB	03/31/05	1750	EC-G

SAMPLE LOGIN

(SOP# MSL-A-001)

Project Manager: Brandenberger Date Received: 3/31/2005 Batch:

PROJECT: Wet Season Baseflow FY05

SPONSOR	Site	BATTELLE			STORAGE				Start	Sample
CODE	Description	CODE	MATRIX	Portion	LOCATION	PARAMETERS REQUESTED	INITIALS	Start Date	Time	Туре
T1316	BI-SBC	2318*453	STW	Total - FW	Prep Lab L-6-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/30/05	1120	D
T1317	BA	2318*455	STW	Total - FW	Prep Lab L-6-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/30/05	1110	D
T1318	CC	2318*457	STW	Total - FW	Prep Lab L-6-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/30/05	1120	D
T1319	SC	2318*459	STW	Total - FW	Prep Lab L-6-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/30/05	1110	D
T1320	CH	2318*461	STW	Total - FW	Prep Lab L-6-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/30/05	1110	D
T1321	SW6	2318*463	SW	Total - FW	Prep Lab L-6-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/30/05	1110	D
T1322	B-ST12	2318*465	SW	Total - FW	Prep Lab L-6-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/30/05	1110	D
T1323	B-ST01	2318*467	SW	Total - FW	Prep Lab L-6-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/30/05	1400	G
T1324	GC-SAN	2318*469	STW	Total - FW	Prep Lab L-6-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/30/05	1335	G
T1325	BL	2318*471	STW	Total - FW	Prep Lab L-6-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/30/05	1325	G
T1326	OC	2318*473	STW	Total - FW	Prep Lab L-6-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/30/05	1300	G
G1209	B-WWTP	2318*475	WWTP	Total - FW	Prep Lab L-6-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/30/05	838	EC-G
G1201	KAR-WWTP	2318*481	WWTP	Total - FW	Prep Lab L-6-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	03/30/05	830	EC-G
T1316	BI-SBC	2318*454	STW	Diss - FW	Prep Lab L-6-B	Cd, Cu, Pb, Ag and Zn	JMB	03/30/05	1120	D
T1317	BA	2318*456	STW	Diss - FW	Prep Lab L-6-B	Cd, Cu, Pb, Ag and Zn	JMB	03/30/05	1110	D
T1318	CC	2318*458	STW	Diss - FW	Prep Lab L-6-B	Cd, Cu, Pb, Ag and Zn	JMB	03/30/05	1120	D
T1319	SC	2318*460	STW	Diss - FW	Prep Lab L-6-B	Cd, Cu, Pb, Ag and Zn	JMB	03/30/05	1110	D
T1320	CH	2318*462	STW	Diss - FW	Prep Lab L-6-B	Cd, Cu, Pb, Ag and Zn	JMB	03/30/05	1110	D
T1321	SW6	2318*464	SW	Diss - FW	Prep Lab L-6-B	Cd, Cu, Pb, Ag and Zn	JMB	03/30/05	1110	D
T1322	B-ST12	2318*466	SW	Diss - FW	Prep Lab L-6-B	Cd, Cu, Pb, Ag and Zn	JMB	03/30/05	1110	D
T1323	B-ST01	2318*468	SW	Diss - FW	Prep Lab L-6-B	Cd, Cu, Pb, Ag and Zn	JMB	03/30/05	1400	G
T1324	GC-SAN	2318*470	STW	Diss - FW	Prep Lab L-6-B	Cd, Cu, Pb, Ag and Zn	JMB	03/30/05	1335	G
T1325	BL	2318*472	STW	Diss - FW	Prep Lab L-6-B	Cd, Cu, Pb, Ag and Zn	JMB	03/30/05	1325	G
T1326	OC	2318*474	STW	Diss - FW	Prep Lab L-6-B	Cd, Cu, Pb, Ag and Zn	JMB	03/30/05	1300	G
G1209	B-WWTP	2318*476	WWTP	Diss - FW	Prep Lab L-6-B	Cd, Cu, Pb, Ag and Zn	JMB	03/30/05	838	EC-G
G1201	KAR-WWTP	2318*482	WWTP	Diss - FW	Prep Lab L-6-B	Cd, Cu, Pb, Ag and Zn	JMB	03/30/05	830	EC-G

cc: Project Manager/Central File Login File SAMPLE LOGIN
(SOP# MSL-A-001)

Project Manager: Brandenberger Date Received: 3/31/2005

Batch: 9

PROJECT: Wet Season Baseflow FY05

SPONSOR	Site	BATTELLE			STORAGE				Start	Sample
CODE	Description	CODE	MATRIX	Portion	LOCATION	PARAMETERS REQUESTED	INITIALS	Start Date	Time	Туре
ORGANICS	<u>3:</u>									
T1316	BI-SBC	2318*504	STW	Total - FW	Outside Refrig	ORGANICS	JMB	03/30/05	1120	D
T1318	CC	2318*506	STW	Total - FW	Outside Refrig	ORGANICS	JMB	03/30/05	1120	D
T1320	СН	2318*508	STW	Total - FW	Outside Refrig	ORGANICS	JMB	03/30/05	1110	D
T1321	SW6	2318*509	SW	Total - FW	Outside Refrig	ORGANICS	JMB	03/30/05	1110	D
T1322	B-ST12	2318*510	SW	Total - FW	Outside Refrig	ORGANICS	JMB	03/30/05	1110	D
T1323	B-ST01	2318*511	SW	Total - FW	Outside Refrig	ORGANICS	JMB	03/30/05	1400	G

cc: Project Manager/Central File Login File SAMPLE LOGIN (SOP# MSL-A-001

Project Manager: Brandenberger Date Received: 4/1/2005

Batch: 10

PROJECT: Make up event for Dyes 1 BI-SBC

SPONSOR	Site	BATTELLE			STORAGE					Sample
CODE	Description	CODE	MATRIX	Portion	LOCATION	PARAMETERS REQUESTED	INITIALS	Start Date	Start Time	Type
T1300	BI-SBC	2318*454B	STW	Total	I-1-B	Al, As, Cd, Cr, Cu, Pb, Ag, Zn and Hg	JMB	04/10/05	2047	FC
T1300 ORGANICS	BI-SBC	2318*455B	STW	Dissolved	I-1-B	Cd, Cu, Pb, Ag and Zn	JMB	04/10/05	2047	FC
T1300	BI-SBC	2318*453B	STW	Total	Outside Refrig	ORGANICS	JMB	04/10/05	2047	FC

Composite Ratio Worksheet: 2005 Storm Water Organic Contaminants

- Gorst
- Sinclair Inlet
- Dyes Inlet

Storm #1 ENVVEST FY05 Gorst Event #1: 17 - 18 Jan 05

Compositing Scheme for Stormwater Sites

Lab ID Series Station ID	T1100- LMK136										
<u>Bottle</u>	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>I</u>	<u>J</u>	<u>K</u>
Date	17-Jan	17-Jan	17-Jan	17-Jan	17-Jan	17-Jan	17-Jan	17-Jan	18-Jan	18-Jan	18-Jan
Time	0054	0354	0654	0954	1203	1503	1803	2103	0003	0303	0603
Compositing %	5%	10%	0%	15%	25%	15%	10%	5%	5%	5%	5%
Tide Level	going low lo		ing high high		ing low low	low		ing high high		ng low low	
% Full	100	100	20	60	100	100	100	100	100	100	85
Lab ID Series	T1104-										
Station ID	LMK122										
<u>Bottle</u>	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>I</u>	<u>J</u>	<u>K</u>
Date	16-Jan	17-Jan	17-Jan	17-Jan	17-Jan	17-Jan	17-Jan	17-Jan	17-Jan	18-Jan	18-Jan
Time	2357	0257	0557	0857	1157	1457	1757	2057	2357	0257	0557
Compositing %	5%	5%	5%	15%	25%	10%	10%	10%	5%	5%	5%
Tide Level	going low lo		ing high high		ing low low	low		ing high high		ng low low	
% Full	100	100	100	100	100	100	100	100	100	100	100
Lab ID Series Station ID	T1105- LMK038										
Bottle	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>E</u>	<u>G</u>	<u>H</u>	<u>I</u>	<u>J</u>	
Date	17-Jan	17-Jan	17-Jan	17-Jan	17-Jan	17-Jan	17-Jan	17-Jan	18-Jan	18-Jan	
Time	0213	0513	0813	1113	1413	1713	2013	2313	0213	0513	
Compositing %	5%	10%	20%	20%	15%	10%	5%	5%	5%	5%	
Tide Level	na										
% Full	100	100	100	100	100	100	100	100	100	100	
Lab ID Series	T1106-										
Station ID	PO-POBLVD	ь	•	ь.	-	-	•				14
Bottle Data	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>I</u>	<u>J</u>	<u>K</u>
Date	17-Jan	17-Jan	17-Jan	17-Jan	17-Jan 1247	17-Jan	17-Jan	17-Jan 2147	18-Jan	18-Jan	18-Jan
Time	0047 5%	0347 5%	0647 5%	0947		1547	1847 10%	10%	0047 5%	0347 5%	0647
Compositing % Tide Level	na 5%	5%	5%	15%	20%	15%	10%	10%	5%	5%	5%
% Full	100	100	100	100	100	100	100	100	100	100	90

Storm #2 ENVVEST FY05 Gorst Event #2: 22 Jan 05

Compositing Scheme for Stormwater Sites

Lab ID Series Station ID	T1107- LMK136						
<u>Bottle</u>	<u>A</u>		<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	
Date		22-Jan	22-Jan	22-Jan	22-Jan	22-Jan	
Time		0642	0942	1242	1542	1842	
Tide Level	low		going high high	goi	ng low low		
% Full		100	100	100	100	75	Total Storm Flow (cubic ft)
Flow (cubic ft)		35019	26694	32319	32778	24210	163,053
%of flow		21.5%	16%	20%	20%	15%	93%
COMPOSITE		25%	20%	10%	30%	15%	100%
Lab ID Series Station ID	T1111- LMK122						
Bottle	<u>A</u>		<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	
Date	_	22-Jan	22-Jan	22-Jan	22-Jan	22-Jan	
Time		0922	1222	1522	1822	2122	
Tide Level	low		going high high	goi	ng low low		
% Full		100	100	100	100	40	Total Storm Flow (cubic ft)
Flow (cubic ft)		27324	34272	36918	45387	12024	170,658
%of flow		16%	20%	22%	27%	7%	91%
COMPOSITE		20%	20%	25%	30%	5%	100%
Lab ID Series Station ID	T1112- LMK038						
Bottle	<u>A</u>		<u>B</u>	<u>c</u>	D	E	
Date		22-Jan	22-Jan	22-Jan	 22-Jan	 22-Jan	
Time		0821	1121	1421	1721	2021	
Tide Level	na						
% Full		100	100	100	100	50	Total Storm Flow (cubic ft)
Flow (cubic ft)		963	1377	1107	1350	153	5,445
%of flow		18%	25%	20%	25%	3%	91%
COMPOSITE		25%	25%	20%	25%	5%	100%
Lab ID Series	T1113-						
Station ID	PO-POBI	LVD					
			В	С	D	E	
Station ID Bottle Date	<u>A</u>		<u>B</u> 22-Jan	<u>C</u> 22-Jan	<u>D</u> 22-Jan	<u>E</u> 22-Jan	
<u>Bottle</u>	<u>A</u>		<u>B</u> 22-Jan 0928	<u>C</u> 22-Jan 1228	22-Jan	22-Jan	
Bottle Date	<u>A</u>	22-Jan	22-Jan	22-Jan			
Bottle Date Time	<u>A</u>	22-Jan	22-Jan	22-Jan	22-Jan	22-Jan	Total Storm Flow (cubic ft)
Bottle Date Time Tide Level	A na	22-Jan 0628 100	22-Jan 0928	22-Jan 1228 100	22-Jan 1528 100	22-Jan 1828	Total Storm Flow (cubic ft)
Bottle Date Time Tide Level % Full	na *Flowlink	22-Jan 0628 100 s shows	22-Jan 0928 100	22-Jan 1228 100 of positive flow	22-Jan 1528 100	22-Jan 1828	,
Bottle Date Time Tide Level % Full Flow (cubic ft)	na *Flowlink	22-Jan 0628 100 s shows	22-Jan 0928 100 total flow of -25k; bulk	22-Jan 1228 100 of positive flow	22-Jan 1528 100	22-Jan 1828	Total Storm Flow (cubic ft) 0% 100 %

Storm #3 ENVVEST FY05 Sinclair Event #1: 28 Feb - 1 Mar 05 Compositing Scheme for Stormwater Sites

Lab ID Series Station ID	T1202 B-ST28								
Bottle	B-3126		<u>B</u>	<u>c</u>	<u>D</u>	<u>E</u>	E	<u>G</u>	
Date	_	28-Feb	28-Feb	28-Feb	<u>Б</u> 1-Маг	⊑ 1-Mar	<u>r.</u> 1-Mar	<u>G</u> 1-Mar	
Time		1521	1821	20-гер	0021	0321	0621	0921	
Tide Level	na	na	na	na	na	na	na na	0921	
% Full	IIa	50	100	100	100	0	45	100	Total Storm Flow (cubic ft)
Flow (cubic ft)		4824	2142	8037	9621	11655	2223	414	41,967
%of flow		11%	5%	19%	23%	28%	5%	1%	93%
COMPOSITE		20%	10%	30%	35%	0%	5% 5%	0%	100%
COMPOSITE		20 /8	10 /6	30 /6	33 /6	0 /6	3 /0	0 /6	100 %
Lab ID Series	T1203								
Station ID	B-ST/CSO16		_	_	_	_	_	_	
Bottle	<u>A</u>		<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	
Date		28-Feb	28-Feb	28-Feb	28-Feb	1-Mar	1-Mar	1-Mar	
Time		1452	1752	2052	2352	0252	0552	0852	
Tide Level	na	na	na	na	na	na	na		
% Full		100	100	100	100	100	100	100	Total Storm Flow (cubic ft)
Flow (cubic ft)		2124	1134	1611	2664	3033	423	0	11,574
%of flow		18.4%	10%	14%	23%	26%	4%	0%	95%
COMPOSITE		20%	10%	15%	25%	25%	5%	0%	100%
Lab ID Series	T1204								
Station ID	PSNS015								
Bottle	<u>A</u>		<u>B</u>	<u>c</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	
Date	-	28-Feb	28-Feb	28-Feb	1-Mar	1-Mar	<u>-</u> 1-Mar	<u>=</u> 1-Mar	
Time		1741	2041	2341	0241	0541	0841	1141	
Tide Level	low to high	high	low		o high high		h to low low	1141	
% Full	low to riight	100	100	100	100	100	100	25	Total Storm Flow (cubic ft)
Flow (cubic ft)		1755	11619	17640	3987	2979	7965	414	43,767
%of flow		4%	27%	40%	9%	7%	18%	1%	106%
COMPOSITE		5%	35%	40%	15%	0%	5%	0%	100%
-									
Lab ID Series	T1205	Note:	Physio-Chem data ind	icate calt water mixing y	w/ storm water at all perio	de EXCEPT during	bottles C and D; take all sa	amples from these h	ottles
Station ID	PSNS124	ivote.	T Try 310-Ottern data ind	icate sait water mixing t	w/ storm water at all perio	us EXOLI I duling	bottles C and D, take all sa	ampies nom mese c	ottlet
Bottle	<u>A</u>		<u>B</u>	<u>c</u>	<u>D</u>	<u>E</u>	<u>E</u>	<u>G</u>	
Date	_	28-Feb	28-Feb	28-Feb	1-Mar	1-Mar	1-Mar	1-Mar	
Time		1726	2026	2326	0226	0526	0826	1126	
Tide Level	low to high	high	low		high high		h to low low		
% Full	· ·	100	100	100	100	100	100	45	Total Storm Flow (cubic ft)
Flow (cubic ft)		351	2484	16146	2745	-120	2403	3717	24849
%of flow		1%	6%	37%	6%	0%	5%	8%	63%
COMPOSITE		0%	0%	80%	20%	0%	0%	0%	100%
Lab ID Series	T1206	Note:	Physio-Chem data ind	icate partial salt-water r	mixing in bottle B ONLY.	No samples from thi	s bottle		
Station ID	PSNS126								
Bottle	<u>A</u>		<u>B</u>	<u>c</u>	<u>D</u>	<u>E</u>	<u>E</u>	<u>G</u>	
Date		28-Feb	28-Feb	28-Feb	1-Mar	1-Mar	1-Mar	1-Mar	
Time		1732	2032	2332	0232	0532	0832	1132	
Tide Level	low to high	high	low		high high	hiq	h to low low		
% Full	5	100	100	100	100	100	100	50	Total Storm Flow (cubic ft)
Flow (cubic ft)		441	10602	17082	17352	-279	3294	63	53019
%of flow		1%	24%	39%	40%	-1%	8%	0%	111%
COMPOSITE		10%	0%	50%	40%	0%	0%		100%

Storm #4 ENVVEST	FY05										
Sinclair Event #2: 19	9 - 20 Mar 05										
Compositing Schem Lab ID Series	te for Stormwa T1209	iter Sites									
Station ID	B-ST28										
Bottle Date	<u>A</u>	19-Mar	<u>B</u> 19-Mar	<u>C</u> 19-Mar	<u>D</u> 19-Mar	<u>E</u> 20-Mar	<u>F</u> 20-Mar	<u>G</u> 20-Mar	<u>H</u> 20-Mar		
Time		1254	1554	1854	2154	0054	0354	0654	0954		
Tide Level % Full	na	na 100	na 100	na 95	na 100	na 100	na 100	na 100	80	Total Storm Flow (cubic Check	ballpark check
Flow (cubic ft)		32850	45711	2952	4734	2889	9477	20205	2772	130,356	121590 121590
%of flow COMPOSITE		25% 30%	38% 40%	2% 0%	4% 5%	2% 0%	7% 10%	15% 15%	2%	96% 100%	
Volume in Jar		3.4	3.4	3.2	3.4	3.4	3.4	3.4	2.7		
Volume needed for 5L Vol. for 10L	-	1.5 3	2 4	0 0	0.25 0.5	0 0	0.5 1	0.75 1.5	0	5 10	
Lab ID Series	T1210		•	Ü	0.0	Ů		1.0	· ·	10	
Station ID	B-ST/CSO1										
Bottle Date	<u>A</u>	19-Mar	<u>B</u> 19-Mar	<u>C</u> 19-Mar	<u>D</u> 19-Mar	<u>E</u> 20-Mar	<u>F</u> 20-Mar	<u>G</u> 20-Mar	<u>H</u> 20-Mar		
Time		1308	1608	1908	2208	0108	0408	0708	1008		
Tide Level % Full	na	na 100	na 100	na 100	na 100	na 100	na 100	na 100	50	Total Storm Flow (cubic Check	ballpark check
Flow (cubic ft)		13473	10548	0	819	801	3888	1512	0	33,687	31041 31041
%of flow COMPOSITE		40% 45%	31% 35%	0% 0%	2% 0%	2% 0%	12% 15%	4% 5%	0%	92% 100%	
Volume in Jar		3.4	3.4	3.4	3.4	3.4	3.4	3.4	1.7		
Volume needed for 5L Vol. for 10L	-	2.25 4.5	1.75 3.5	0 0	0	0 0	0.75 1.5	0.25 0.5	0	5 10	
Lab ID Series	T1211										
Station ID Bottle	PSNS015 A		<u>B</u>	<u>c</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>		
Date	_	19-Mar	19-Mar	19-Mar	19-Mar	20-Mar	20-Mar	20-Mar	20-Mar		
Time Tide Level	high to low	1238 low	1538 low	1838 low to hig	2138 h high	0038 high to lov	0338 w low	0638 low	0938		
% Full	3	100	100	100	100	100	100	100	85	Total Storm Flow (cubic Check	ballpark check
Flow (cubic ft) Flow (cubic ft)		60804 60804	80451 80451	2484 2484	3672	12789	29277 14638.5	16128 16128	0	220,005 174,506	205605 205605 174505.5 174506
%of flow COMPOSITE		35% 35%	46% 50%	1% 0%	0% 0%	0% 0%	8% 5%	9% 10%	0%	100% 100%	
Volume in Jar		35%	3.4	3.4	3.4	3.4	3.4	3.4	0% 2.9	100%	
Volume needed for 5L	_	1.75	2.5	0	0	0	0.25	0.5	0	5	
Vol. for 10L Lab ID Series	T1212	3.5	5	0	0	0	0.5	1	0	10	
Station ID	PSNS124										
Bottle Date	<u>A</u>	19-Mar	<u>B</u> 19-Mar	<u>C</u> 19-Mar	<u>D</u> 19-Mar	<u>E</u> 20-Mar	<u>F</u> 20-Mar	<u>G</u> 20-Mar	<u>H</u> 20-Mar		
Time		1230	1530	1830	2130	0030	0330	0630	0930		
Tide Level % Full	high to low	low 100	low 100	low to hig 100	h high 100	high to lov	w low 100	low 100	70	Total Storm Flow (cubic Check	ballpark check
Flow (cubic ft)		14661	22005	2925	0	0	1575	4644	1629	56,493	47439 47439
%of flow COMPOSITE		26% 35%	39% 50%	5% 0%	0% 0%	0% 0%	3% 5%	8% 10%	3% 0%	84% 100%	
Volume in Jar		3.4	3.4	3.4	3.4	3.4	3.4	3.4	2.4		
Volume needed for 5L Vol. for 10L	-	1.75 3.5	2.5 5	0 0	0 0	0 0	0.25 0.5	0.5 1	0	5 10	
Lab ID Series	T1213		-	-		-		•			
Station ID Bottle	PSNS126		<u>B</u>	<u>c</u>	<u>D</u>	<u>E</u>	<u>E</u>	<u>G</u>	<u>H</u>		
Date	_	19-Mar	19-Mar	19-Mar	19-Mar	20-Mar	20-Mar	20-Mar	20-Mar		
Time Tide Level	high to low	1227 low	1527 low	1827 low to hig	2127 h high	0027 high to lov	0327 w low	0627 low	0927		
% Full	3	100	100	100	100	100	100	100	60	Total Storm Flow (cubic Check	ballpark check
Flow (cubic ft) %of flow		75114 40%	68904 37%	0 0%	0 0%	4248 2%	4374 2%	25335 14%	1782 1%	186,876 96%	179757 179757
COMPOSITE		45%	40%	0%	0%	0%	5%	10%	0%	100%	
Volume in Jar Volume needed for 5L	_	3.4 2.25	3.4 2	3.4 0	3.4 0	3.4 0	3.4 0.25	3.4 0.5	2.0 0	5	
Vol. for 10L		4.5	4	0	0	0	0.5	1	0	10	

Vol. for 10L		4.5	4	0	0	0	0.5	1	0
Lab ID Series Station ID	T1221 B-ST12								
Bottle		<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>E</u>	<u>G</u>	<u>H</u>
Date		19-Mar	19-Mar	19-Mar	19-Mar	20-Mar	20-Mar	20-Mar	20-Mar
Time		1318	1618	1918	2218	0118	0418	0718	1018
Tide Level	na	na	na	na	na	na	na	na	
% Full		80	100	100	100	100	100	100	90
Flow (cubic ft)		6255	4572	1152	3501	3933	5265	3861	2970
%of flow		19%	14%	3%	11%	12%	16%	12%	9%
COMPOSITE		30%	20%	0%	10%	10%	15%	10%	5%
Volume in Jar		2.7	3.4	3.4	3.4	3.4	3.4	3.4	3.1
Volume needed for 5l	L	1.5	1	0	0.5	0.5	0.75	0.5	0.25
Vol. for 10L Page	e 220 (of 224 ³	2	0	1	1	1.5	1	0.5

2005 Storm Water Data Report

ballpark check 31509 31509

Total Storm Flow (cubic ft) 33,174 95% **100%**

Storm #5 ENVVEST FY05

Dyes Inlet Event #1: 26 Mar 05

Compositing Scheme for Stormwater Sites

Lab ID Series	T1305						
Station ID	SW6						
Bottle	Δ	<u>B</u>	<u>c</u>	<u>D</u>	<u>E</u>	E	
Date	26-Mar	26-Mar	26-Mar	26-Mar	26-Mar	26-Mar	
Time	0140	0440	0740	1040	1340	1640	
Tide Level	low to high	high	high to low	low	low to high	high	
% Full	100	100	100	100	100	100	Total Storm Flow (cubic ft) ballpark check
Flow (cubic ft)	60759	121671	217089	136017	82044	34299	710,082 651879
%of flow	9%	19%	31%	21%	12%	5%	95%
COMPOSITE	10%	20%	30%	25%	10%	5%	100%
Lab ID Series Station ID	T1306 B-ST12						
<u>Bottle</u>							
Dottic	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	
Date	26-Mar	26-Mar	26-Mar	26-Mar	26-Mar	26-Mar	
Date Time							
Date Time Tide Level	26-Mar 0136 na	26-Mar 0436 na	26-Mar 0736 na	26-Mar 1036 na	26-Mar 1336 na	26-Mar 1636 na	
Date Time Tide Level % Full	26-Mar 0136 na 100	26-Mar 0436 na 100	26-Mar 0736 na 100	26-Mar 1036 na 100	26-Mar 1336 na 90	26-Mar 1636 na 90	Total Storm Flow (cubic ft) ballpark check
Date Time Tide Level % Full Flow (cubic ft)	26-Mar 0136 na 100 8262	26-Mar 0436 na 100 11664	26-Mar 0736 na 100 6534	26-Mar 1036 na 100 3501	26-Mar 1336 na 90 13356	26-Mar 1636 na 90 6849	54,072 50166
Date Time Tide Level % Full Flow (cubic ft) %of flow	26-Mar 0136 na 100 8262 15%	26-Mar 0436 na 100 11664 22%	26-Mar 0736 na 100 6534 12%	26-Mar 1036 na 100 3501 6%	26-Mar 1336 na 90 13356 25%	26-Mar 1636 na 90 6849 13%	54,072 50166 93%
Date Time Tide Level % Full Flow (cubic ft)	26-Mar 0136 na 100 8262	26-Mar 0436 na 100 11664	26-Mar 0736 na 100 6534	26-Mar 1036 na 100 3501	26-Mar 1336 na 90 13356	26-Mar 1636 na 90 6849	54,072 50166
Date Time Tide Level % Full Flow (cubic ft) %of flow COMPOSITE	26-Mar 0136 na 100 8262 15% 20%	26-Mar 0436 na 100 11664 22%	26-Mar 0736 na 100 6534 12%	26-Mar 1036 na 100 3501 6%	26-Mar 1336 na 90 13356 25% 10%	26-Mar 1636 na 90 6849 13%	54,072 50166 93% 100%
Date Time Tide Level % Full Flow (cubic ft) %of flow COMPOSITE Rainfall	26-Mar 0136 na 100 8262 15% 20%	26-Mar 0436 na 100 11664 22% 25%	26-Mar 0736 na 100 6534 12% 30%	26-Mar 1036 na 100 3501 6% 15%	26-Mar 1336 na 90 13356 25% 10%	26-Mar 1636 na 90 6849 13%	54,072 50166 93%
Date Time Tide Level % Full Flow (cubic ft) %of flow COMPOSITE	26-Mar 0136 na 100 8262 15% 20%	26-Mar 0436 na 100 11664 22%	26-Mar 0736 na 100 6534 12%	26-Mar 1036 na 100 3501 6%	26-Mar 1336 na 90 13356 25% 10%	26-Mar 1636 na 90 6849 13%	54,072 50166 93% 100%

Sampling Ends

rainfall based compositing %

Total Sampling Period

100

Storm BI-SBC MKUP Event ENVVEST FY05 BI-SBC Makeup Event; Dyes #3: 10 April 05 Proposed Compositing Scheme for Stormwater Sites

Lab ID Series	T1300					
Station ID	BI-SBC	12-HR				
Bottle	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	
Date	10-Apr	11-Apr				
Time	20:47	2:47				
Tide Level	NA	NA				
% Full	100	100				Total Storm Flow (cubic ft) ballpark check
Flow (cubic ft)	45318	69139				115,532 114457
_%of flow	39%	60%	0%	0%	0%	99%
COMPOSITE	40%	60%				100%

Storm #6 ENVVEST FY05 Dyes Inlet Event #2: 1 April 05 Compositing Scheme for Stormwater Sites

Lab ID Series Station ID	T1308 BI-SBC				30 hrs										
Bottle	<u>A</u>	<u>B</u>	<u>c</u>	<u>D</u>	<u>E</u>										
Date	31-Mar	1-Apr	1-Apr	1-Apr	=										
Time	1849	0049	0649	1249											
Tide Level	NA	NA	NA	NA											
% Full	100	100	100	20											Total Storm Flow (cubic ft) ballpark check
Flow (cubic ft)	52690	107429	95340	5298											264,504 260757
%of flow	20%	41%	36%	2%	0%										99%
COMPOSITE	20%	45%	35%	0%											100%
vol. Available (L)	3.7	3.7	3.7	0.7											
Vol for 5L	1.0	2.3	1.8	0.0											
vol for 10L	2.0	4.5	3.5	0.0											
	1.6	3.6	2.8	0.0			8								
1															
Lab ID Series	T1313														
Station ID	SW6	_	_	_	_	_		_			_	30 hrs			
<u>Bottle</u>	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>		<u>G</u>	<u>H</u>		Ī		<u>J</u>		
Date	31-Mar	31-Mar	1-Apr	1-Apr	1-Apr										
Time	2036	2336	0236	0536	0836										
Tide Level	sl - rising	high	sl-fall	slack	high										
% Full	100	100	100	100	65										Total Storm Flow (cubic ft) ballpark check
Flow (cubic ft)	60849	100224	102969	30411	11223	_									330,390 305676
%of flow	18%	30%	31%	9%	3%	0	%	0%		0%		0%		0%	
COMPOSITE	20%	35%	40%	5%	0%										100%
vol. Available (L)	3.7	3.7	3.7	3.7											
Vol for 5L	1.0	1.8	2.0	0.3											
vol for 10L	2.0	3.5	4.0	0.5											
			peak of storm		tidally influenced										
Lab ID Series	T1314														
Station ID	B-ST12											30 hrs	:		
Bottle	<u>A</u>	<u>B</u>	<u>c</u>	D	<u>E</u>	<u>F</u>		<u>G</u>	<u>H</u>		1		<u>J</u>		
Date	31-Mar	31-Mar	1-Apr	<u>D</u> 1-Apr	1-Apr	<u>-</u>		<u>~</u>			-		¥		
Time	19:07	22:07	1:07	4:07	7:07										
Tide Level	NA	NA NA	NA	NA	NA										
% Full	100	100	100	95	80										Total Storm Flow (cubic ft) ballpark check
Flow (cubic ft)	9567	9855	11106	9819	4914										49,581 45261
%of flow	19%	20%	22%	20%	10%	0	1%	0%		0%		0%		0%	
COMPOSITE	25%	20%	30%	20%	5%										100%
vol. Available (L)	3.7	3.7	3.7	3.5	3.0										1
Vol for 5L	1.3	1.0	1.5	1.0	0.3										
vol for 10L	2.5	2.0	3.0	2.0	0.5										

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References

- Ecology (Washington State Department of Ecology) 1998. Final 1998 Section 303(d) List -WRIA 15: Kitsap Watershed. Available online: http://www.ecy.wa.gov/programs/wq/303d/1998/1998_by_wrias.html
- TEC (The Environmental Company). 2004a. Quality Assurance Project Plan for Sampling and Analysis of In-Stream and Storm Water Chemical and Flow Characteristics PSNS Project ENVVEST Study Area. 2005 Sampling Season. Contract No.: N44255-98-D-4416, Contract Task Order: 0068.TEC, Inc., Bellevue, Washington.
- TEC (The Environmental Company). 2004b. Sampling and Analysis Plan of In-Stream and Storm Water Chemical and Flow Characteristics PSNS Project ENVVEST Study Area. 2005 Sampling Season. Contract No.: N44255-98-D-4416, Contract Task Order: 0068.TEC, Inc., Bellevue, Washington.
- TEC (The Environmental Company). 2004c. Health and Safety Plan for Sampling and Analysis of In-Stream and Storm Water Chemical and Flow Characteristics PSNS Project ENVVEST Study Area. 2005 Sampling Season. Contract No.: N44255-98-D-4416, Contract Task Order: 0068.TEC, Inc., Bellevue, Washington.
- TEC (The Environmental Company). 2005a. PSNS Project ENVVEST FY05 Sampling and Analysis of In-Stream and Storm Water, Winter 2005, Field Sampling Report #1 for Storm Sampling Event #1, Gorst Event Sites, 17-18 January 2005. TEC, Inc., Bellevue, Washington.
- TEC (The Environmental Company). 2005b. PSNS Project ENVVEST FY05 Sampling and Analysis of In-Stream and Storm Water, Winter 2005, Field Sampling Report #2 for Storm Sampling Event #2, Gorst Event Sites, 22 January 2005. TEC, Inc., Bellevue, Washington.
- TEC (The Environmental Company). 2005c. PSNS Project ENVVEST FY05 Sampling and Analysis of In-Stream and Storm Water, Winter 2005, Field Sampling Report #3, Sinclair Event Sites, 28 February 1 March, 2005. TEC, Inc., Bellevue, Washington.
- TEC (The Environmental Company). 2005d. PSNS Project ENVVEST FY05 Sampling and Analysis of In-Stream and Storm Water, Winter 2005, Field Sampling Report #4, Sinclair Event Sites, 19-20 March, 2005. TEC, Inc., Bellevue, Washington.
- TEC (The Environmental Company). 2005e. PSNS Project ENVVEST FY05 Sampling and Analysis of In-Stream and Storm Water, Winter 2005, Field Sampling Report #5, Dyes Event Sites, 26 March, 2005. TEC, Inc., Bellevue, Washington.
- TEC (The Environmental Company). 2005f. PSNS Project ENVVEST FY05 Sampling and Analysis of In-Stream and Storm Water, Winter 2005, Field Sampling Report #6, Dyes Event Sites, 31 March 1 April, 2005. TEC, Inc., Bellevue, Washington.
- TEC (The Environmental Company). 2005g. PSNS Project ENVVEST FY05 Sampling and Analysis of In-Stream and Storm Water, Springbrook Creek Sampling Event, 10-11 April, 2005. TEC, Inc., Bellevue, Washington.